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"CHEMICUS, CANNON, LONDON."
[Charged as two words only.]

**Established in
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No. 1,865 Vol. LXXXVII.

OCTOBER 23, 1915.

{ Subscription, 10s. per annum, including Diary.
Free the World over. Single Copies, 6d. each.
Winter and Summer Issues, 1s. each. Post Free.

Extract of Malt

with

Cod Liver Oil

packed in amber-
tinted glass jars
—labelled.

SIZES:

$\frac{1}{2}$ lb., 1 lb.,
2 lb., 4 lb.

Orders can be
received for im-
mediate delivery.



**Allen &
Hanburys,**
Limited,
London.



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with

Cod Liver Oil

packed in amber-
tinted glass jars
—labelled.

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$\frac{1}{2}$ lb., 1 lb.,
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Orders can be
received for im-
mediate delivery.



**Allen &
Hanburys,**
Limited,
London.

The Proprietors of

WRIGHT'S Coal Tar SOAP

have decided, owing to the great demand for the Calendars for 1915 which they were unable to satisfy, to issue —————

Six Beautiful Calendars for 1916

on conditions opposite.

THE

Best Advertisement

FOR

THE BEST PHARMACISTS

IN THE

BEST HOMES

IS

The Artistic Calendar

IT LASTS RIGHT THROUGH THE YEAR.

CONDITIONS For a WINDOW DISPLAY

of 3 gross of tablets of Wright's Coal Tar Soap for 3 weeks we give a Bonus of $\frac{1}{2}$ a gross of tablets.

This works out thus :

SELLING PRICE.

3 Gross of Tablets of Wright's Coal Tar Soap - - - -	£7 4 0
$\frac{1}{2}$ Gross Tablets as a bonus for Window Display of three weeks	£1 4 0
	<u>£8 8 0</u>

BUYING PRICE.

3 Gross Tablets Wright's Coal Tar Soap - - - -	£5 18 6
$\frac{1}{2}$ Gross Tablets Free - - -	—
Less $2\frac{1}{2}$ per cent. for Cash - -	0 3 0
	<u>£5 15 6</u>

The money equivalent of any of Wright's Coal Tar Specialities may be used to make up the amount of purchase to £5 18 6.



THE TOAST IS "BRITAIN."

By Fred Roe, R.I.

IN WRIGHT'S COAL TAR SOAP WINDOW COMPETITION ARE **14 CASH PRIZES,** TWICE ANNUALLY, **from £25 to £1 value.**

BESIDES BONUS QUANTITIES AND 30% PROFIT ON SALES,
SPECIAL PICTURE (Gratis) "THE TOAST IS 'BRITAIN,'" SHOWCARDS, ADVERTISING NOVELTIES AND CALENDARS.

WRIGHT, LAYMAN & UMNEY, Ltd., Southwark, London, S.E.

WRIGHT'S

1916

CALENDARS

As long as stocks permit,
orders executed in rotation.

One hundred of either with
WINDOW DISPLAY
orders (1 gross of boxes).

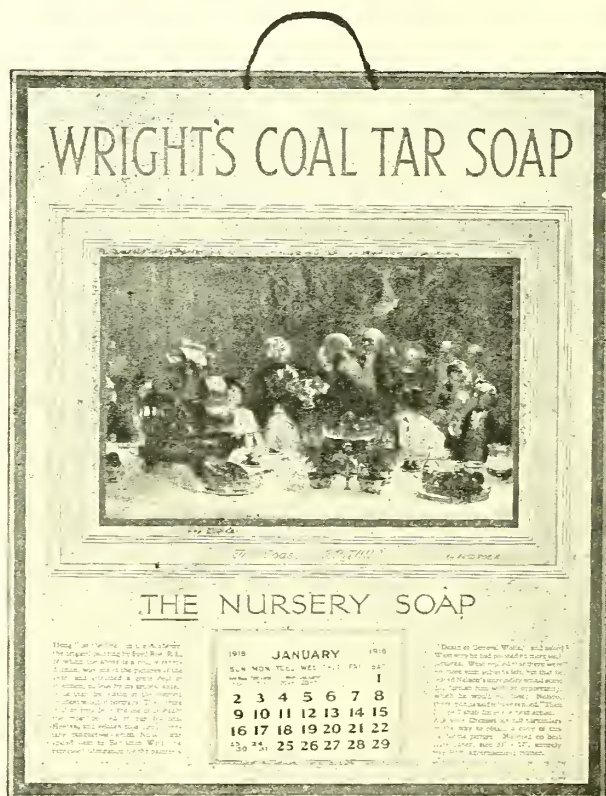
READY NOVEMBER 1.



A



B



C

WRIGHT, LAYMAN & UMNEY, Ltd., Southwark, London, S.E.

WRIGHT'S COAL TAR SOAP

Calendar for 1916

JANUARY	FEBRUARY	MARCH
SUN - 2 819 2530	SUN - 4 819 2530	SUN - 4 819 2530
MON - 3 100 2530	MON - 5 819 2530	MON - 5 819 2530
TUE - 4 111 2530	TUE - 6 819 2530	TUE - 6 819 2530
WED - 5 122 2530	WED - 7 819 2530	WED - 7 819 2530
THU - 6 133 2530	THU - 8 819 2530	THU - 8 819 2530
FRI - 7 144 2530	FRI - 9 819 2530	FRI - 9 819 2530
SAT - 8 155 2530	SAT - 10 819 2530	SAT - 10 819 2530
APRIL	MAY	JUNE
SUN - 2 819 2530	SUN - 3 819 2530	SUN - 4 819 2530
MON - 3 100 2530	MON - 4 819 2530	MON - 5 819 2530
TUE - 4 111 2530	TUE - 5 819 2530	TUE - 6 819 2530
WED - 5 122 2530	WED - 6 819 2530	WED - 7 819 2530
THU - 6 133 2530	THU - 7 819 2530	THU - 8 819 2530
FRI - 7 144 2530	FRI - 8 819 2530	FRI - 9 819 2530
SAT - 8 155 2530	SAT - 9 819 2530	SAT - 10 819 2530
JULY	AUGUST	SEPTEMBER
SUN - 2 819 2530	SUN - 3 819 2530	SUN - 4 819 2530
MON - 3 100 2530	MON - 4 819 2530	MON - 5 819 2530
TUE - 4 111 2530	TUE - 5 819 2530	TUE - 6 819 2530
WED - 5 122 2530	WED - 6 819 2530	WED - 7 819 2530
THU - 6 133 2530	THU - 7 819 2530	THU - 8 819 2530
FRI - 7 144 2530	FRI - 8 819 2530	FRI - 9 819 2530
SAT - 8 155 2530	SAT - 9 819 2530	SAT - 10 819 2530
OCTOBER	NOVEMBER	DECEMBER
SUN - 1 819 2530	SUN - 1 819 2530	SUN - 1 819 2530
MON - 2 819 2530	MON - 2 819 2530	MON - 2 819 2530
TUE - 3 819 2530	TUE - 3 819 2530	TUE - 3 819 2530
WED - 4 819 2530	WED - 4 819 2530	WED - 4 819 2530
THU - 5 819 2530	THU - 5 819 2530	THU - 5 819 2530
FRI - 6 819 2530	FRI - 6 819 2530	FRI - 6 819 2530
SAT - 7 819 2530	SAT - 7 819 2530	SAT - 7 819 2530



SUITABLE FOR CHILDREN OF ALL AGES

WRIGHT'S 1916 CALENDARS.

SIX DIFFERENT KINDS.

As long as stocks permit,
orders executed in rotation.

One hundred of either with
WINDOW DISPLAY
orders (1 gross of boxes),

READY NOVEMBER 1.

2

After Walking Hunting Fishing Shooting & all outdoor sports
a warm bath with
WRIGHT'S COAL TAR SOAP
is very refreshing

1916

WRIGHT'S COAL TAR SOAP

WRIGHT'S WATER BABIES

JANUARY	FEBRUARY	MARCH	APRIL
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
MAY	JUNE	JULY	AUGUST
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

WRIGHT, LAYMAN & UMNEY, Ltd., Southwark, London, S.E.

FIVE POUNDS secures 10%. £2:10:0 to £4:19:11 secures 5%.

1915 BUDGET 1915

AMENDED HOME TRADE. TERMS

REVISED PRICES & TERMS OF Elliman's Universal Embrocation FOR HUMAN USE.

All previous Terms, including Agreements, respecting prices of Elliman's Universal Embrocation for Human use are cancelled from October 15, 1915.

Marked Price	Minimum Price	Trade Price per Dozen	Trade Price per Gross, less 10%	Sold at Minimum Price per Gross	PROFIT on outlay
8½d. now 1/-	11½d.	10 6	£5 : 13 : 5 Net	£6 : 18 : 0	£1 : 4 : 7
1/1½ „ 1 3	1 2	12 9	6 : 17 : 8 „	8 : 8 : 0	1 : 10 : 4
2 9 „ 3/-	2 9	29 -	15 : 13 : 2 „	19 : 16 : 0	4 : 2 : 10

CARRIAGE NOT PAID.

There is no advance in the prices of Elliman's Royal Embrocation for use on Animals.

They remain as follows :

Marked Price	Minimum Price	Trade Price per Dozen	Trade Price per Gross, less 10%	Sold at Minimum Price per Gross	PROFIT on outlay
1 -	11d.	10 -	£5 : 8 : 0 Net	£6 : 12 : 0	£1 : 4 : 0
2 -	1 9	19 -	10 : 5 : 2 „	12 : 12 : 0	2 : 6 : 10
3 6	3/-	32 9	17 : 13 : 8 „	21 : 12 : 0	3 : 18 : 4

CARRIAGE NOT PAID.

TERMS OF PURCHASE.

Orders (assorted or not) of less value than £2 : 10 : 0 are net.

Orders of the value of £2 : 10 : 0, and up to the value of £4 : 19 : 11, are subject to 5 % discount for Cash within 28 days from date of invoice.

Orders of the value of £5 : 0 : 0 and upwards are subject to 10 % discount for Cash within 28 days from date of invoice.

Cash with Order or Trade references. Carriage not paid.

ELLIMAN, SONS & CO., Slough, England.

BUYERS' GUIDE FOR GOODS ADVERTISED IN THE C. & D.

Assoluble Alcohol
Burroughs, J., Ltd.

Acetanilide
Burgoyne, Burdidges & Co.

Acetic Anhydride
Cellonite Co., Dreyfus & Co.

Acetyl-Salicylic Acid
Bush, W. J. & Co., Ltd.
Fabra Co., Ltd.
Fuerst Bros.
Keene Laboratories
Lane-Hall, E., & Co.
Reichmeyer, Calburn & Kin-
dersley, Ltd.

Advertising
Degen, F. A.

Aerated Water Machinery
Barnett & Foster
Pure Aeration Supply, Ltd.

Aerated Waters
Camwell, Ltd.
Idris & Co., Ltd.

Aerated-Water Materials
Barnett & Foster
Boake Roberts & Co., Ltd.
Bosh, W. J. & Co., Ltd.
Hay, William, Ltd.
Stevenson & Howell, Ltd.

Agencies
Hulking, Chas. L.
Lennon, Ltd.

Air Cushions
Burge, Warren & Ridgley, Ltd.

Alkaloids
Burroughs Wellcome & Co.
Carnegie Bros.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
Reichmeyer, Calburn & Kin-
dersley, Ltd.
Roques, Ferdinand
Salle, H., & Co.
Smith, T. & H., Ltd.

Almond Oil
Allen, Stafford, & Sons, Ltd.

Aluminium Articles
Buncher & Haesler, Ltd.
Bley Bros., Ltd.
Venesta, Ltd.

Ambulance Outfits
Burroughs Wellcome & Co.
Hall Forster & Co., Ltd.
Toogood, William, Ltd.

American Chemicals, &c.
Hulking, Chas. L.
Mallinckrodt Chem. Works

American Proprieties
American Drug Supply Co.
Roberts & Co.

Ammonia & Salts
Brunner, Mond & Co., Ltd.

Amponole Files
Sim, Ltd.

Ampoules
Bressillon, M., & Co.
Lane, Jules, & Son
Maw, S., Son & Sons
Melin, C., & Co.
Oppenheimer, Son, & Co., Ltd.

Anesthetics
Duncan, Flockhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
Sacharin Corporation, Ltd.
Smith, T. & H., Ltd.

Aniline Dyes
Crawshaw, E., & Co.
Hoyle, J., & T., & Co.
Lane-Hall, R., & Co.

Anatto
Fullwood, R. J., & Bland
Tomlinson & Hayward, Ltd.

Artificial Limbs
Ferris, J., & E.
Haywood, J. H., Ltd.
Maw N., Son & Sons

Asthma Remedies
Hair, B. W., & Son
Lofthouse & Saltmer, Ltd.
Potter & Clarke, Ltd.

Atomizers
DeVillibus Mfg. Co.

Atropine
Carnegie Bros.
Roques, Ferdinand

Bacterial Vaccines
Burroughs Wellcome & Co.
Christy, Thos., & Co.
Duncan, Flockhart & Co.
Evans Sons Lescher & Webb
Martindale, Wm.
Parke, Davis & Co.

Baking Specialities
British Wheat Salts Co.

Balsams
Dodge & Olcott Co.

Barometers
Darton, F., & Co.

Barrels
Venesta, Ltd.

Bath Cabinets
Riley Bros., Ltd.

Bed Chairs
Gray & Selby

Beeswax
Farris, Charles

Bichromates
White, John & James

Biological Products
Christy Thos., & Co.

Bismuth Salts
Alliance Drug & Chem. Co.
Burgoyne, Burdidges & Co.
Howards & Sons, Ltd.

Body Belts
Berton, Arthur, Ltd.
Maw, S., Son & Sons
Schultz, F., & Co., Ltd.
Wood, Vincent

Books, &c.
Christy's "Monthly"
Martindale's "Extra Pharm"
Potter's "Cyclopaedia"
Squire's "Companion"

Botanic Druggists
Brook, Parker & Co. Ltd.
Newhall & Mason
Penick & B., & Co.
Potter & Clarke, Ltd.

Bottles, Jars, &c., Glass
Barnett & Foster
Ferry, T., & Son, Ltd.
"Ideal" Bottle
Isaacs, I., & Co.
Lang, Jules, & Son
Maw, S., Son & Sons
Melin, C., & O'Locks, Ltd.
Swales, T. | Univ. Bottle Co
Youlden, E., Ltd.

Bougies
Bressillon, M., & Co.

Boxes
Ayrton, Saunders & Co., Ltd.
Estes, E. B., & Sons, Ltd.
Ford, Shapland & Co.
Globe Box Co.
Robinson & Sons, Ltd.
Shirley Bros., Ltd.
Stipendum Stopper Co.
Waide, T., & Sons

Bromides
Fuerst Bros.
Green, K. W., & Co.

Brushes
Art & Medical Brush Mfg. Co.
Bidwell, Bidwell & Co., Ltd.
Hovenden, R., & Sons, Ltd.
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
Titterton & Howard

Butter Colouring
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

Cachets
Clark, C. S.
Cooper, Son & Co., Ltd.

Cachous
Crosse & Blackwell

Caodylates
Roques, Ferdinand

Calf Lymph
Heinemann, W.

Camel Hair Brushes
Art & Medical Brush Mfg. Co.

Camphor
Camphor
Alliance Drug & Chemical Co.
Howards & Sons, Ltd.
May & Baker, Ltd.

Cantharidin
Smith, T. & H., Ltd.

Caps for Bottles, &c.
Betts & Co., Ltd.
Darter, Wilkinson & Co.
Viscose Development Co., Ltd.
(Self-Axing and Airtight)

Capsuled Pills
McKesson & Robbins

Capsules (various)
British Organotherapy Co., Ltd.
Denoual, Jules, & Co.
Evans Sons Lescher & Webb
Forber, R. & Co., Ltd.
Smith, Martin H., & Co.
Stevenson, H., E., & Co.
Tye, John, & Son
Warrior Bros. Ltd.

Cartons
Globe Box Co.
Robinson & Sons, Ltd.
Sutcliffe & Silverlock, Ltd.

Catarrh Remedy
Dr. Mackenzie's Laboratories

Catheters
Mason Bros. & Chapman
Porges
Warne, Wm., & Co., Ltd.

Caustic Soda
Brunner, Mond & Co., Ltd.

Cellulose Acetate
Cellonite Co., Dreyfus & Co.

Cements
Kay Bros., Ltd.
Mendit, Ltd.

Chalk, Precipitated
Levermore, A., & Co., Ltd.
Mumford, G. S., & Sons
Nichols Chemical Co., Ltd.
Sturge, John & E., Ltd.

Chemical Plant
Blair, Campbell & McLean, Ltd.
Forshaw, E., & Son, Ltd.

Chemicals
Baiss Bros. & Stevenson, Ltd.
Boake Roberts & Co., Ltd.
Boehm, F., Ltd.
Bramwell, E., & Son, Ltd.
British Drug Houses Ltd., The
Brunner, Mond & Co., Ltd.
Burgoyne, Burdidges & Co.
Burroughs Wellcome & Co.
Carnegie Bros.
Corbyn Stacey & Co., Ltd.
Crampton, J., & Co., Ltd.
De Roubaix & Cassiers
Evans Sons Lescher & Webb, Ltd.
Fera Co., Ltd.
Greiff, H. W., & Co.
Hopkin & Williams, Ltd.

Combs
Howenden, R., & Sons, Ltd.

Condensers
Bennett, Sons & Shears, Ltd.

Confectionery, Medicated
Guest, Thos., & Co.
Pascall, James, Ltd.

Continental Props.
American Drug Supply Co.
Bressillon, M., & Co.
Roberts & Co.
Wilcox, Jozean & Co.

Corks
Ardwick Cork Depot
Mitchell, N. W., & Sons, Ltd.

Corn Planes
Boston, Walter

Corn Plasters, &c.
Solport Bros.
Swales, Thomas

Cough Cure
Veno Drug Co., Ltd.

Counter Adjuncts
Evans Sons Lescher & Webb, Ltd.

Counter Specialities
Allen & Hanbury, Ltd.
British Drug Houses, Ltd., The
Burgoyne, Burdidges & Co.
Hewlett, C. J., & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Wright, Layman & Umney, Ltd.

Counting, and Filling Machine
Forgrove Machinery Co., Ltd.

Court Plaster
Solport Bros.

Cream of Tartar
Pelliot, Henri, & Cie

Cressots
Baiss Bros. & Stevenson, Ltd.

Crope Bandages
Bosh, W. J. & Co., Ltd.
Gimber, W., & Son
Norwich Crepe Co. (1856), Ltd.
Wood, Vincent

Cyanides
May & Baker, Ltd.

Dairy Specialities
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.
Tomlinson & Hayward, Ltd.

Deafness Preventive
Harbutt's Plasticine Co.
Mallock - Armstrong Ear
Detector

Dental Mechanies
Fentiman, A. G.
Fentiman, J., & Co.
Hender, C.
Wardale & Co.

Dentifrices
Beecham, T.
Bell (John), Hills & Lucas, Ltd.
Blackie, Robert
Christy, T. & Co.
Cook, E. & Co., Ltd.
Cox, Arthur H. & Co., Ltd.
Enryll, Ltd.
McKesson & Robbins
Maw, S., Son & Sons
Parke, Davis & Co.
Sangers
Standard Tablet & Pill Co., Ltd.
Woolley, J., Sons & Co., Ltd.
Developers (Photo.)
Evans Sons Lescher & Webb
Express-Developing Co.

Dextrin
Pink, F. & Co.
Diabetic Foods
Brissson Jeune
Van Abbott, G., & Sons
Digestive Products
Armour & Co., Ltd.
Digestive Ferments Co.
Fairchild Bros. & Foster
Parke, Davis & Co.

Disinfectants
Baiss Bros. & Stevenson, Ltd.
Burgoyne, Burdicks & Co.
Burt, Boulton & Haywood, Ltd.
Celcol Supply Agency
Cook, E. & Co., Ltd.
Harker, Stagg & Morgan, Ltd.
Jeyes' Sanitary Compd. Ltd.
Sanitas Co., Ltd.
Standardised Disinfectants
Co., Ltd.
Stevenson, H. E., & Co.
Willows, Francis, B. & T., Ltd.
Wright, Layman & Umney, Ltd.

Druggists/Sundries
Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Berton, Arthur, Ltd.
Burge, Warren & Ridgley, Ltd.
Burgoyne, Burdicks & Co.
Bush, H. W., & Co., Ltd.
Chemists' Sundries, Ltd.
Evans Sons Lescher & Webb, Ltd.
Hovenden, R., & Sons, Ltd.
Longcroft, H. M.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Schutze, F., & Co., Ltd.
Solport Bros.
Southall Bros. & Barclay, Ltd.
Swales, Thomas
Sunnys Manufacturing Co.
Toogood, W., & Co., Ltd.
Woolley, J., Sons & Co., Ltd.

Drugs, Crude
Dodge & Olcott Co.
Gathergood's Exor.
Goodall, Backhouse & Co.
Lambert, Saml., & Co.
McKesson & Robbins
Nesbitt, S. B., & Co.
Potter & Clarke, Ltd.
Raines & Co.
Welch & Horner

Eau de Cologne
Brumley, H., & Co., Ltd.
Bunn, W. J., & Co., Ltd.
Christy, Thos., & Co.
Erasme Co., Ltd.
Lescol Perfumery Co.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Sangers
Schutze, F., & Co., Ltd.
Vinolia Co., Ltd.

Eau de Cologne (solid)
Demuth's Laboratories
Educational Institutions
Bath & West of England College
Birmingham & Midland Coll.
British Optical Institute
College of Preceptors
Dawes, A. H.
Liverpool School of Pharmacy
London College of Pharmacy
North of England School
Northern College of Pharmacy
South of England College
Westminster College

Effervescent Preparations
Allen & Hanbury's, Ltd.
Evans Sons Lescher & Webb, Ltd.
Goodall, Backhouse & Co.
Mastic Gum Insts.
Mason Bros. & Chapman
Mastic Hosiery
Ayrton, Saunders & Co., Ltd.
Bailey, W. H., & Son
Burge, Warren & Ridgley, Ltd.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Wood, Vincent

Electrical Novelties
Mullard Bros., Ltd.
Singer, Archd., J., Ltd.

Embrocations
Fillman, Sons, & Co.

Emery and Cloth
Jakey, J., & Sons, Ltd.

Emetine Salts
Macfarlan, J. F., & Co.
Whiffen & Sons, Ltd.

Emulsifiers
Bennett, Sons & Shears, Ltd.
Wilkinson, S. W., & Co.

Emulsions, C.L.O., &c.
Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
Browning, Wm., & Co.
Cuppl, Ltd.
Faulding, F. H., & Co.
Parke, Davis & Co.
Scott & Bowne, Ltd.
Stevenson, H. E., & Co.
Wyleys, Ltd.

Enamelled Hospital Requisites
Orme, Evans & Co., Ltd.

Endolytic Tubes
Fletcher, Fletcher & Co. Ltd.

Enemas
Burge, Warren & Ridgley, Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Warne, W., & Co., Ltd.

Epsom Salts
Howards & Sons, Ltd.
Wav & Baker, Ltd.
Methven, J., Son & Co., Ltd.

Essences, Sol. and Fruit
Alliance Drug & Chem.
Barnett & Foster
Boake Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Hay, Wm., Ltd.
London Essence Co.
Polak & Schwarz
Stevenson, H. E., & Co.
Whittaker, Arthur

Ethers
Baiss Bros. & Stevenson, Ltd.
Duncan, Flockhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

Eucalyptus Oil
British Drug Houses, Ltd.
Stevenson, H. E., & Co.
Tasmanian Eucalyptus Oil Co.

Evaporators
Forshaw, E., & Son, Ltd.

Extract of Herbs
Newhall & Mason
Potter & Clarke, Ltd.

Extracts (Medicinal)
Allen, Stafford, & Sons, Ltd.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb, Ltd.
Gathergood's Exor.
Hewlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W. & Son, Ltd.

Factory, &c., Sites
Great Western Railway

Feeding Bottles
Bush, H. W., & Co., Ltd.
Maw, S., Son & Sons
Schutze, F., & Co., Ltd.

Filling Machines
Froxtrope Machinery Co., Ltd.
Roberts' Pat. Filling Mach. Co.

Filters
British Pasteur-Chamberland
Filter Co.

Flycatchers
Alabastine Co. (British) Ltd.
Kay Bros., Ltd.
Smith, Jno. H., & Co.

Foods, Invalid, &c.
Allen & Hanbury's, Ltd.
Bell (John), Hills & Lucas, Ltd.
Benger's Food, Ltd.
Benger's Co., Ltd.
British Milk Products Co., Ltd.
Deans, Logan & Co., Ltd.
Fairchild Bros. & Foster
Frame Food Co.
Harker, Stagg & Morgan, Ltd.
Lorimer, John
Lothhouse & Salmter, Ltd.
Natural Food Co., Ltd.
Sister Laura's Infant Food Co.
Southall Bros. & Barclay, Ltd.
Wander, A., Ltd.
White, A. J., Ltd.
Willows, Francis, B. & T., Ltd.
Woolley, Jas., Sons & Co., Ltd.

Foot Appliances
Scholl Mfg. Co., Ltd.

Foot Warmers
Maw, S., Son & Sons
McGlashan, D.

Fuller's Earth
Mumford, G. S., & Sons

Fumigators
Sanitas Co., Ltd.

Gallic Acid
Mallinckrodt Chem. Works

Gases
Bailey, R., & Son
Carnegie Bros.

Gelatines
Crampton, J., & Co., Ltd.

Glassware, Chemical
De Roubaix & Cassiers
Lang, Jules, & Son

Glycerin
Price's Patent Candle Co., Ltd.

Glycerophosphates
Monsanto Chemical Works
Reitmeyer Calburn & Kindersley, Ltd.

Grease Paints
Hovenden, R. & Sons, Ltd.
Queleh, Henry C., & Co.

Grinders, Drag, &c.
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T., Ltd.

Gripe Water
Woodward, W., Ltd.

Gums
Pink, F., & Co.
Kidston, W. M., & Co.
Lambert, Saml., & Co.
Welch & Horner

Hair Dyes
Harker, C.R., Stagg & Morgan
Blackie, Robert

Hair Preparations
Alexandre, L.
Anzora Perfumery Co.
Blackie, Robert
Edwards "Harlene" Co.
Franklin Co.
Ni-Verre Chemical Co.
Sangers
Tokalon Ltd.

Hand Carts, Trucks, &c.
Crewe & Co.

Hat Cleaners
Cox, Arthur H., & Co., Ltd.
Milner's Chemical Co.

Hat Dyes
Whittaker & Co.

Heating Apparatus
Quadruplex, A. B., Ltd.
Wright, John, & Co.

Herbs
Brook, Parker & Co., Ltd.
Fottis & Clarke, Ltd.
Salle, H., & Co.

Homeopathic Medicines
Ashton & Parsons, Ltd.
Keene & Ashwell, Ltd.

Horse Remedies
Harvey & Co. (Dublin), Ltd.

Hot Water Bottles
Bailey, W. H., & Son
Berton, Arthur, Ltd.
Burge, Warren & Ridgley, Ltd.
Chemists' Sundries, Ltd.
Galen Manfg. Co., Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Toogood, William, Ltd.
Warne, Wm., & Co., Ltd.
Ward, Vincent

Hot Water Bottle Stoppers
Rowe, T. Wilfrid

Hotels
Kingsley Hotel
Thackeray Hotel

Hydrogen Peroxide
Laporte, B., Ltd.
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co., Ltd.

Hypophosphites
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

Ink, Dichroic
Bewley & Draper, Ltd.

Insecticides
Christy, T., & Co.
Cook, E., & Co., Ltd.
Hand, C., & Co.

Insect Powder
Potter & Clarke, Ltd.
Raines & Co.

Iodides
Tyrer, T., & Co., Ltd.

Lanolines
Christy, T., & Co.
Corbyn, Stacey & Co., Ltd.
Hilcrest Oil Co., Ltd.
Howard Lloyd & Co., Ltd.

Lard
Ewen, J., & Sons

Lavender Oil
Allen, Stafford, & Sons, Ltd.
Guillevic, E., & Co.
Ransom, W., & Son, Ltd.

Lavender Water
Bush, W. J., & Co., Ltd.

Lime Juice and Cordial
Evans Sons Lescher & Webb, Ltd.
Iris & Co., Ltd.

Linseed, Crushed
Mumford, G. S., & Sons

Lints
Liverpool Lint Co.
Maw, S., Son & Sons
Robinson & Sons, Ltd.
Vernon & Co., Ltd.

Liquorice Juice
Boehm, F., Ltd.
Fuerst Bros.
Jackson, Ernest, & Co.
Solazzi

Liquors, Conc.
Fletcher, Fletcher & Co.

Lithia Salts
British Drug Houses, Ltd.
The
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.

Loofah Socks
Davis, J. M., & Sons

Loofahs
Hall Forster & Co., Ltd.
Internl. Sponge Importers, Ltd.
Solport Bros., Ltd.
Swales, Thos.

Lozenges
Crosse & Blackwell
Denoual, Jules, & Co.
Guett, Thos., & Co.
Jackson, Ernest, & Co.
Parke, Davis & Co.
Potter & Clarke, Ltd.
Raines & Co.
Warrick Bros., Ltd.

Lysols
Aerators, Ltd.
Burt, Boulton & Haywood, Ltd.
Eucryl Ltd.
Evans Sons Lescher & Webb, Ltd.
Lysol, Ltd.

Machinery, Pharmacal
Allen & Hanbury's, Ltd.
Bennett, Sons & Shears, Ltd.
Blair, Campbell & McLean, Ltd.
Froxtrope Machinery Co., Ltd.
Gardner, Wm., & Sons, Ltd.
Griffin, John J., & Sons, Ltd.
Jackson, J. G., Ltd.
Pindar, J. W., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.

Magnesia and Preps.
Henry, T. & W.
Howards & Sons, Ltd.
Phillips, Chas. H., Chem. Co.
Washington Chemical Co., Ltd.

Malt Extract and Preps.
Allen & Hanbury's, Ltd.
Blackie, Robert
British Drug Houses, Ltd.
Burgoyne, Burdicks & Co.
Calder, James, & Co., Ltd.
Calder's Yeast Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Davies, Sons & Co.
Evans Sons Lescher & Webb, Ltd.
Fletcher, Fletcher & Co., Ltd.
May, Roberts & Co., Ltd.
Oppenheimer, Son & Co., Ltd.
Paine & Co., Ltd.
Percall, James, Ltd.
Tolkein, C., & Co.
Wander, A., & Co.
Wyleys, Ltd.

Marking Ink
John Bond ("Crystal Palace")

Measures, Graduated
Bush, H. W., & Co., Ltd.

Meat Extracts
Armour & Co., Ltd.
Brand & Co., Ltd.

Mercurials
Alliance Drug & Chemical Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

Methylated Spirit
Burroughs, J., Ltd.
Preston & Liverpool Distillery
Randall & Son, Ltd. (Co., Ltd.)
Thornley, Samuel, Ltd.

Mineral Waters
Camwal, Ltd.
Cheltenham Mineral Water
Del Mar, E.
Iris & Co., Ltd.
Ingram & Koyle, Ltd.

Mixers and Sifters
Gardner, Wm. & Sons (Glos.) Ltd.
Stokes, F. J., Machine Co.

Naphthalene
Burt, Boulton & Haywood, Ltd.

Night Lights
Price's Patent Candle Co., Ltd.

Oils, Essential
Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chemical Co.
Boake Roberts & Co., Ltd.
Boehm, F., Ltd.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Etna Essential Oil Co.
Evans Sons Lescher & Webb, Ltd.
Guillevic, E., & Co.
Lambert, Saml., & Co.
Lane-Hall, E., & Co.
London Essence Co.
Magnus, Mahee & Reynardino.
Naeff, M., & Co.
Polak & Schwarz
Ransom, W., & Son, Ltd.
Stevenson & Howell, Ltd.
Verona Chemical Co.
Welch & Horner
Wiener, R. G., & Co.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co., Ltd.

Optical Goods
Darton, F., & Co.
Maw, S., Son & Sons
Nische & Gunther Optical
Co., Ltd.
Standard Optical Co., Ltd.

Optical Tuition
British Optical Institute
College of Optics

Orange and Quinine Wine
Hobson, Joseph, & Son
Iris & Co., Ltd.
Millar, A., & Co., Ltd.
Robinson, B., & Co., Ltd.

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Hopkin & Williams, Ltd.

Organo-Therapeutic Preps.
Armour & Co., Ltd.
British Organotherapy Co., Ltd.
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Duncan, Flockhart & Co.

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Guillevic, E., & Co.
Zimmermann, C., & Co., Ltd.

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Guillevic, E., & Co.
Kerfoot, Thos., & Co.
Polak & Schwarz
Stevenson & Howell, Ltd.
Stevenson, H. E., & Co.
Warrick Bros., Ltd.
Wright, Layman & Umney, Ltd.

Oxygen Baths
Wright & Co.

Oxygen Gas (in Cylinders)
Lea & Son

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Oppenheimer, Son & Co., Ltd.

Paper Handkerchiefs
Tolnoo Handkerchief Co., Ltd.

Paraminum Liquidum
Benjamin & Co.
Browning, Wm., & Co.
Cheshbrough Manfg. Co.
Farris, Charles
Snowdon, Sons & Co., Ltd.
Stern Sonneborn Oil Co., Ltd.
Wiener, R. O., & Co.

Pastilles
Allen & Hanbury's, Ltd.
Burgoyne, Burdicks & Co.
Demuth's Laboratories
Evans Sons, Lescher & Webb
Guett, Thos., & Co.
Kerfoot, Thomas, & Co.
Wander, A., & Co.
Warrick Bros., Ltd.

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Raworth, John E.

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Allen, Stafford, & Sons, Ltd.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Ransom, W., & Son, Ltd.
Rudd, F. M.
Stevenson & Howell, Ltd.

Pepsine
Digestive Ferments Co.
Greiff, R. W., & Co.

Peptone
Armour & Co., Ltd.
Digestive Ferments Co.
Fairchild Bros. & Foster

Perfume Materials
Bush, W. J., & Co., Ltd.
Guillevic, E., & Co.
Kerfoot, Thos., & Co.
Lane-Hall, E., & Co.
Naeff, M., & Co., Sucois.
Polak & Schwarz
Salle, H., & Co.
Stevenson & Howell, Ltd.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co., Ltd.

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Allen & Hanbury's, Ltd.
Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.
Burlingame, H. & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Demuth's Laboratories
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Evans Sons Lescher & Webb, Ltd.
Lescol Perfumery Co.

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Boehm, F., Ltd.
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Price's Patent Candle Co., Ltd.
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Oldfield, Pattinson & Co.
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Maw, S., Son & Sons
Nische & Gunther Optical
Co., Ltd.
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Optical Tuition
British Optical Institute
College of Optics

Orange and Quinine Wine
Hobson, Joseph, & Son
Iris & Co., Ltd.
Millar, A., & Co., Ltd.
Robinson, B., & Co., Ltd.

Organic Solvents
Hopkin & Williams, Ltd.

Organo-Therapeutic Preps.
Armour & Co., Ltd.
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Digestive Ferments Co.
Duncan, Flockhart & Co.

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Guillevic, E., & Co.
Zimmermann, C., & Co., Ltd.

Otto Rose (Synth.)
Bush, W. J., & Co., Ltd.
Guillevic, E., & Co.
Kerfoot, Thos., & Co.
Polak & Schwarz
Stevenson & Howell, Ltd.
Stevenson, H. E., & Co.
Warrick Bros., Ltd.
Wright, Layman & Umney, Ltd.

Oxygen Baths
Wright & Co.

Oxygen Gas (in Cylinders)
Lea & Son

Palatinoids
Oppenheimer, Son & Co., Ltd.

Paper Handkerchiefs
Tolnoo Handkerchief Co., Ltd.

Paraminum Liquidum
Benjamin & Co.
Browning, Wm., & Co.
Cheshbrough Manfg. Co.
Farris, Charles
Snowdon, Sons & Co., Ltd.
Stern Sonneborn Oil Co., Ltd.
Wiener, R. O., & Co.

Pastilles
Allen & Hanbury's, Ltd.
Burgoyne, Burdicks & Co.
Demuth's Laboratories
Evans Sons, Lescher & Webb
Guett, Thos., & Co.
Kerfoot, Thomas, & Co.
Wander, A., & Co.
Warrick Bros., Ltd.

Patent Agents
Barker, R. W.
Raworth, John E.

Peppermint Oil
Allen, Stafford, & Sons, Ltd.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Ransom, W., & Son, Ltd.
Rudd, F. M.
Stevenson & Howell, Ltd.

Pepsine
Digestive Ferments Co.
Greiff, R. W., & Co.

Peptone
Armour & Co., Ltd.
Digestive Ferments Co.
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Kerfoot, Thos., & Co.
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Polak & Schwarz
Salle, H., & Co.
Stevenson & Howell, Ltd.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co., Ltd.

Perfumes
Allen & Hanbury's, Ltd.
Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.
Burlingame, H. & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Demuth's Laboratories
Erasme Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Lescol Perfumery Co.

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Meade-King, Robinson & Co.
Stern Sonneborn Oil Co., Ltd.
Wiener, R. O., & Co.

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Greiff, R. W., & Co.
Monsanto Chemical Works
Reitmeyer Calburn & Kindersley, Ltd.

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Richford, C. D.

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Saccharin Corporation, Ltd.

Salicylic Acid and Salicylates
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Central Export Bureau

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Saponin
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Shares
McAdam & Tuckness

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Spermaceti
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Price's Patent Candle Co., Ltd.

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Stills
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Raworth, John E.

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Berdoe & Fish
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Magnus, Mabee & Reynard Inc.

Vanillin
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Green, R. W., & Co.
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Wiener, R. O., & Co.

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Hawker, Arthur E.
Tomlinson & Hayward, Ltd.

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Burroughs Wellcome & Co.
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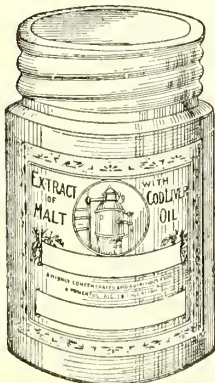
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per doz.	per doz.	per doz.	per doz.
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1-lb. 7/3	1-lb. 6/3	1-lb. 8/9	1-lb. 8/3
2-lb. 12/6	2-lb. 11/-	2-lb. 15/6	2-lb. 15/-
4-lb. 24/-	4-lb. 21/-	4-lb. 30/-	4-lb. 28/-

Minimum 3 dozen.

Minimum 3 dozen.

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is realised by the up-to-date Chemist. Come to us.

WE SPECIALISE ON THE FOLLOWING LINES:

Labels, Show Cards, Cartons, Price Lists, Art Bills, Envelopes for Shampoo Powder, Corn Silk, Lozenges, etc., Counter Bills, Booklets, Paper Bags, Toilet Rolls, Fly Papers and Coils, Prescription and Account Books, Almanacks and Calendars, Wrapped Skillets, Chemists' Demy and Wrapping Papers, Weight Cards, etc.

We can Help You with your requirements.

AGENTS FOR REGISTRATION
— OF TRADE MARKS. —

OFFICES

**6 GREAT TURNSTILE, HIGH HOLBORN,
LONDON**

WORKS:— WHETSTONE PARK.

Telephone - 65 CITY
Telegram - FORSHAPCO,
WESTCENT, LONDON.

An Attractive Window is your Best Advertising Medium

YOUR window can be made attractive, and dressed in half the usual time, by the use of oak pedestals and shelves. Dainty in appearance, they show your goods to the best advantage and stimulate trade. Make your window dressing original and distinctive, and the returns will prove their efficiency.

Our Chemists' and Druggists' leaflet mailed on receipt of postcard.

Saml. HASKINS & Bros.
Ltd.

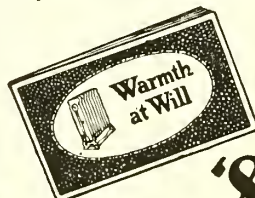
SHOPFITTERS. Established 1784.

Phones: 20/34 OLD ST., Wires:
2985 City 'Curvilinear,
(4 lines.) LONDON, E.C. Barb. London.'



Shop Heating Simplified.

The "St. Andrew" Gas-Steam Radiator solves the heating problem—doing away with elaborate, costly, and troublesome hot-water pipes, &c.; no flues, pipes, or boilers. Simple gas connection only required. Automatic regulation of gas supply, ensuring a uniform temperature and no waste of gas. Odourless, non-corrosive, and absolutely safe.



Write to-day for free Booklet,
"WARMTH AT WILL."

'St Andrew'
THE
GAS STEAM RADIATORS

John Wright & Co., Essex Works, Birmingham.

PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS

R.W. Greeff & Co.,

offer at lowest prices the
following products manufactured
in the United Kingdom, Allied
and Neutral Countries.

(WHOLESALE QUANTITIES ONLY)

Bromide of Potassium	Lithia Carbonate
Bromide of Sodium	Lithol (Ichthyol sub.)
Cinchonine Sulphate and Muriate	Mercurials
Cinchonidine Sulphate	Methyl Sulphonol
Citric Acid	Peppermint Oil
Cocain Hydrochlor and Puriss	Pepsine
Coumarin Crystals	Phenazone
Cream of Tartar	Pyrogallic Acid
Creosote Carbonate	Phenolphthalein
Diamidophenol Hydrochlor	Potassium Sulpho-Guaiacolate
Formaldehyde	Quinine
Gallic Acid	Salicylate of Soda
Glycerophosphates	Sugar of Milk
Heliotropin	Tannic Acid
Hexamine	Tannin Albuminate
Homatropine Hydrobrom	Theobromine Pure Alkaloid
Hydroquinone	Vanillin
Isarol (best Ichthyol substitute)	Veronal

R.W. Greeff & Co.,

THAMES HOUSE, QUEEN STREET PLACE,
LONDON, E.C.

*Gun Deafness
prevented*

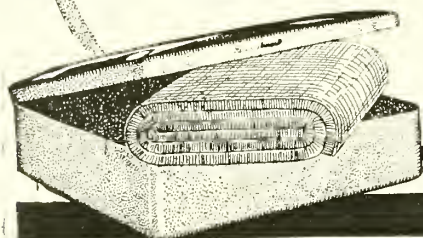
by the use of Harbutt's
FIBROUS PLASTICINE.

Used by the War Office and Admiralty and
by hundreds of our men in the firing line.

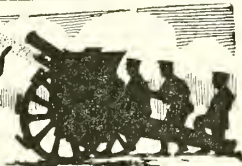
Harbutt's FIBROUS PLASTICINE

Strongly advertised, and put up in attractive tin boxes to retail at 6d. and 1/-. This new line is worth your attention.

HARBUTT'S PLASTICINE, LTD.
6 Bathampton - - Bath.



PLEASE
WRITE
FOR
TERMS
AND
SAMPLES.



LOOFAHS!!

*I am now offering the above at
Bargain Prices:*

1 gross assorted
(1d., 2d. & 3d.) for ... **9/-**

1 gross assorted
(1d., 2d., 3d. & 4d.) for **10/6**

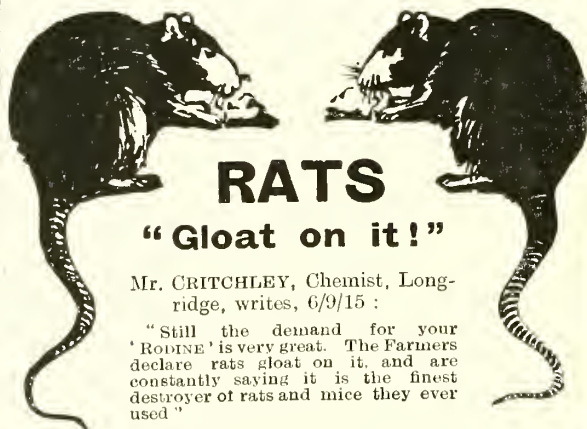
CASH WITH ORDER CARRIAGE PAID.

**Buy now for the season & make
250% Profit!**

THOMAS SWALES,

**24 Butts Court, and
89 Albion St., LEEDS.**

Telephones - - - 3702 Central; 406 Headingley.



RATS

"Gloat on it!"

Mr. CRITCHLEY, Chemist, Long-
ridge, writes, 6/9/15:

"Still the demand for your
'RODINE' is very great. The Farmers
declare rats gloat on it, and are
constantly saying it is the finest
destroyer of rats and mice they ever
used."

"RODINE" RAT POISON

can hold its own anywhere.

Mr. TOOHIG, Chemist, Narberth, writes:

"In spite of all imitations and competitors, you
will be pleased to learn that 'RODINE' holds
its own—absolutely."

"RODINE" gives the best results
to both customer and agent.

HARLEY, Manufacturing Chemist. PERTH, Scotland.

EXPORT AGENTS:
TOZER, KEMSLEY & FISHER, LTD.,
84 Fenchurch Street, London, E.C.

KAY BROTHERS, Ltd.

STOCKPORT,

Manufacturing Chemists.

BIRDLIMES and FLY GUMS for all climates.

FLYPAPERS, } "Big Bat" & "Falcon" Brands.
Non-Poisonous.

FLYCATCHERS, Spiral Wire, "Vampire."
TAPES & BANDS. Cavity Tape, "Flysac."
" " " "Scorpion."
" " " "Dragon."
{ Roll Band, "Viper."
(2 in. and 4 in. wide.)

CEMENTS. "COAGULINE" Transparent
Cement for broken articles, 6d. bots.
"TENASITINE." A Liquid Cement
in Tubes, 1d., 2d., 3d. & 6d.
"KLINX." Hydraulic Cement (heat-
proof), 6d. tins.
"CUE CEMENT," 6d. & 1/-.

SANITARY FLUID. For disinfecting and
deodorising. In Tins or Casks.

"PULVICIDE" (Patented). A Dustlaying Com-
pound. Agents wanted for its introduction to
Municipalities.

"LINSEED COMPOUND." (P.A.T.A.)

A Cough Mixture of over 40 years' proven excel-
lence.

TELEGRAPHIC
ADDRESS:
ELEVEN CENT LONDON

Maw's

S. MAW, SON & SONS
7 to 12, ALDERSGATE ST.
LONDON, E.C.

Page

TELEPHONE
CITY 7
PRIVATE BRANCH EXCHANGE

NUMBER 210

OCTOBER 23, 1915

British Capsules

The big Autumn-Winter line! A reputation for purity second to none. Only pure oil of cinnamon—NOT cinnamon leaf oil—is used.

Ammoniated Quinine Capsules,
6 6 dozen tins; 72/- gross net
Ammoniated Quinine & Cinnamon
Capsules,
7/3 dozen tins; 78/- gross net.

SELLING POINTS.

Recognised prophylactic against influenza—Handy enamelled tins for pocket—Paper partitions prevent Capsules being crushed—Purity of ingredients.



NAME
AND
ADDRESS
FREE
ON
6 DOZ.
TINS

MADE IN OUR
LONDON FACTORY,
UNDER EXPERT
SUPERVISION, THE
"COTTAGE" IS ONE
OF OUR BEST
KNOWN BRON-
CHITIS KETTLES.
JOINTED SPOUT
AND SPREADER.
GOOD QUALITY
THROUGHOUT.

3 PINT 1/9 EACH.
4 PINT 2/3 EACH.

OVERSEAS

A COLUMN FOR AUSTRALASIA

We have a fine and extensive stock of Toilet Holdalls, which form a very good line for the approaching season. The following may be ordered with every confidence:

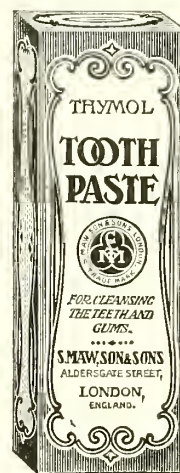
- 10/C. Star Check Cambric 10½ x 7 in., 8/- doz.
- 14/C. Fancy Floral pattern 16 x 9½ in., 18/- doz.
- 17/C. Do. Heavy Proofing 16 x 10 in., 24/- doz.
- 22/C. Extra large, Fancy Floral, Flaps to pockets 24 x 12 in. 48/- doz.

THE HOUSE FOR
HOLIDAY LINES.

Seven Varieties

Greatly enhanced in appearance by newly designed cartons—lithographed in distinctive shades of red, green, blue, purple and pink—our well-known 6d. Tooth Pastes in pure tin enamelled collapsible tubes should enjoy still larger sales.

Put up in seven varieties named below.



4/- dozen
5/- lots, 5% and 5% monthly a/c.
10 " 10% " 5% " "

SELLING POINTS.

Customers have the choice of seven flavours—Arca, Carbolic, White Carbolic, Cherry, White Cherry, Thymol, Wintergreen—Purity of ingredients.

Building Up

Yesterday the Nation gave its annual homage to Lord Nelson. Trafalgar lives in the memory with a peculiar freshness during these stirring times. The Nelson Monument is a silent reminder of Great Britain's long-established hold of the high seas. Baily's statue of Lord Nelson was raised to the top of the Corinthian column on November 3, 1843. The statue was 17 ft. high, and weighed 18 tons.

On November 1 the statue was segmented. The next day, after six hours' labour, the lower part reached the top of the column. The upper

part of the body and the arm went up and were secured on the 3rd. At a cost of £17,860 Nelson's Column was complete. Piece by piece the national memorial to a famous sailor had been raised up; a permanent testimony to his greatness.

The story of "Parex" is one of gradually building up, piece by piece, a reputation second to none. We commenced with the "Parex" Hot Water Bottle (now attaining record sales). Gradually new lines were added. One by one they grew into the great "Parex" series

as we now know them. The series is still growing.

At the present moment we have seventeen distinct "Parex" lines—distinct alike for superb quality and get-up. Our bonus offer of 1 to the dozen, 4 to 3 dozen, and 18 to the gross, applies to most of the "Parex" Toilet preparations, while the assured protected profits further enhance their popularity.

There was never a better double guarantee than our name and the name of "Parex."

Capsule

STEEDMAN'S SOOTHING POWDERS.

P.A.T.A. PRICES
as from October 20, 1915.

Nominal Value.	Minimum Wholesale Price.	Minimum Retail Price.
1/1½ per packet.	10/5 per doz.	1/0½ per packet.
2/9 „	24/6 „	2/5 „

Single powders 1½d. each, flat rate.

Each 1/1½ packet contains 9 powders; each 2/9 packet contains 27 powders.

EADE'S GOUT AND RHEUMATIC PILLS AND EADE'S ANTIBILIOUS PILLS.

REVISED LIST OF PRICES.

EADE'S GOUT AND RHEUMATIC PILLS.
EADE'S ANTIBILIOUS PILLS.

1/3 size, **129/-** per gross (not less than one gross).
3/- size, **27/-** per doz. (not less than one doz.).

These articles are on the P.A.T.A. list and must not be sold under the following prices :
To retailers, **11/8** and **30/-** per doz. Minimum selling price, **1/2** and **2/11** each.

Cheque with order. Carriage Not Paid.
THESE PRICES ARE STRICTLY NET.

GEORGE EADE & SONS, 232 Goswell Rd., LONDON, E.C.

ALL PREVIOUS PRICE LISTS CANCELLED.

PLEASE REMOVE AND RETAIN

Telegrams: "Christyfen, Cannon, London."
Telephone: City 4278 & 4279.

4/12 Old Swan Lane,
Upper Thames Street, London, E.C.

THE PRESENT STAMPED PRICES OF OUR OWN PROPRIETARIES AND THOSE FOR WHICH WE ARE SOLE AGENTS.

Kindly note the New Prices for our various stamped lines occasioned by the Patent Medicine Stamp Duty. In one or two instances a further slight increase is compulsory on account of increased freight and insurance charges.

	PRICES TO CHEMISTS.		PRICES TO CHEMISTS.
Absorbine Jr.	49/3 doz.	Kerpod	11/- doz.
Alexine	102/- "	"	26/- "
"	32/- "	"	40/- "
"	54/- "	Kharu Fruit	12/- "
Anti-pain Pills (Mile's)	12/6 "	"	9/3 ea.
Alum Comp. Pessaries	39/4 "	Kola Tablets	12/- doz.
Antiphlogistine	12/9 "	"	28/- "
"	30/6 "	"	42/- "
"	51/- "	Menthol Lozenges	12/- "
"	102/- "	"	28/- "
Antitussin	15/3 "	"	42/- "
"	27/- "	Malarin Powder	10/6 "
Anasarcin Tablets	84/- "	"	21/- "
Anasarcin Elixir	46/- "	Malarin Tablets	10/6 "
Bell's Papayans	16/- "	"	21/- "
"	40/6 "	Mistole	12/- "
Blood Purifier (Mile's)	49/9 "	"	28/- "
Cocaine Lozenges	12/- "	"	42/- "
"	28/- "	Nerve & Liver Pills (Mile's)	15/6 "
"	42/- "	Ossin	11/6 "
Cas-car-ans	12/3 "	"	24/- "
"	53/6 "	"	43/- "
Cuic-I-Curit Wafers	8/6 "	Oxonia	26/- "
Dolle's Iron Milk	20/6 "	Pan Digestive Cachets	11/- "
"	28/9 "	"	26/- "
"	49/- "	Papaine Lozenges	12/- "
Eczema Lotion	10/- "	"	28/- "
"	29/- "	"	42/- "
Epidermin	15/3 "	Papaine and Cocaine Lozs.	12/- "
"	27/- "	"	28/- "
Ergo-Apiol	54/- "	"	42/- "
Eckman's Alternative	96/- "	Papaw Lozenges	12/- "
Fluor Rheumin	15/3 "	"	28/- "
"	27/- "	"	42/- "
Gastrogen Tablets	26/- "	Pepto-Mangan (Gude)	52/3 "
Glyco-Thymoline	12/4 "	Rhinalum Wafers	11/6 "
"	26/- "	Restorative Nervine (Mile's)	49/9 "
"	51/9 "	Remedy for Heart	52/6 "
" (Winchesters)	12/6 ea.	Restorative Tonic	52/3 "
Hæmorrhoid Cones	23/- doz.	Sal-Codeia (Bell's)	79/6 "
Hayden's Viburnum Comp.	33/- "	Salacatin	24/6 "
"	11/3 "	Tosa Chilblain Cure	10/6 "
Homax	1/2/ "	Tablogestin	49/2 "
Hoff's Malt Ext. with Iron	22/10 "	Unguentine	11/6 "
		Urethral Crayons	23/- "

WE SHALL ALWAYS BE GLAD TO
HEAR FROM YOU ANY TIME CON-
CERNING THESE.

CHRISTY,
Old Swan Lane, LONDON.

HOLLOWAY'S PILLS & OINTMENT

Change in Price Necessitated by Increased Taxation.

Owing to the increased taxation there will be a change necessitated in the price of the small size (1/1½) boxes and pots of Holloway's Pills and Ointment, but, as Thomas Holloway bears part of the tax himself, a proportionate amount of profit will be secured to the retailers, and it is proposed that the prices shall now be

Wholesale	-	-	11/- per dozen.
Retail	-	-	1/1½ per box or pot.

THE LARGER SIZES WILL NOT BE AFFECTED, and no change will be made as these are mostly purchased by customers made long ago who are entitled to consideration, and who will appreciate the concession on the part of the chemist and of Thomas Holloway, who will bear the extra tax on the large sizes and make no alteration in his prices to the Trade.

To simplify the question of insufficiently stamped stock of the LARGE sizes that may be in the hands of the retailer on 20th October next, Thomas Holloway will be pleased to replace same with fresh stock properly stamped, free of cost and paying the carriage both ways, if it is sent to him at—

113 SOUTHWARK STREET, LONDON, S.E.

N.B.—There are many in the Trade who take a friendly interest in the sale of Holloway's Pills and Ointment, and it would be greatly appreciated if they would point out to the public, when occasion offers and time permits, that all small boxes of Pills put up with the new Stamps will carry an increased number of Pills, equivalent to the value of the extra taxation, while the small Ointment Pot has been provided with a cover, at considerable cost to the Proprietors, a change which will be welcomed by many regular users of the Ointment.

ADVANCE IN PRICE OF DR. MACKENZIE'S SMELLING BOTTLES



To conform with the New Patent Medicine Duty, and allow for increased all round costs to both Manufacturers and Retailers, the new minimum P.A.T.A. retail price will be

1/3 instead of 1/-

The new price to retailers will be from this date

**11/6 per dozen
instead of 9/6**

It will therefore be seen that the 3d. per bottle increase to the public is made up by 1½d. Extra Duty, ½d. extra to Manufacturers and 1d. extra profit to the Retailer.

Dr. Mackenzie's Smelling Bottles are being more extensively advertised than ever before, and it is hoped that Retailers will assist by displaying the goods.

**Dr. MACKENZIE'S LABORATORIES Ltd.,
READING.**

October 20, 1915.

F. TUNBRIDGE }
J. C. GAMBLES } Directors.

Lofthouse & Saltmer, Ltd.

Wholesale and Export Drug Merchants,
Manufacturing Chemists

HULL

Invite the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	Protected Retail Price.	Dozen Net.
* LOSALL'S SALT (well advertised), tins	6d.	3 6
* " " " " " "	1/-	7/-
* " " " " " bottles in cartons	1/6	10/6

* Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema } 1/- 8/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

The VENO DRUG Co., Ltd.

NEW PRICES.

THESE NEW PRICES show 24·14 % profit on cost on £3 or £6 parcels of the 1/1½d. size—delivered CARRIAGE PAID, cash in 30 days. £100 parcels show 27·13% profit on cost. VENO Advert. prices for Ireland remain as before.

Liberal as these terms are, and backed up by our unceasing efforts on behalf of our friends in the trade, we feel certain that our lines will continue to receive the same vigorous support as before.

TERMS :

2½% Discount if Paid in 30 Days, afterwards NET.

5% Discount on orders of £100 and upwards.

All Goods Carriage Paid.

WINDOW SHOWS.

We are prepared to arrange for window displays on the following terms: 2/6 on £3 order; 5/- on £6 order; and 10/- on £12 order. We ask only for a good corner in a front window. These terms must be arranged for when ordering. Orders can be assorted to meet your requirements.

TO NEW CUSTOMERS.

Please note cash or references are required with a first order.

ORDER FORM.

To THE VENO DRUG CO., Ltd.,
Veno Buildings, Chester Road, Manchester.

Please send the following Goods, carriage paid, in free boxes:—

		Size Min. Prices per doz.		
Doz.	Dr. Cassell's Tablets	...	1/-	... 10/3
—	“ “ “	...	1/3	... 12/5
—	“ “ “	...	3/-	... 30/-
—	“ “ Instant Relief	...	1/-	... 10/3
—	“ “ “ “	...	3/-	... 30/-
—	“ Veno's Lightning Cough Cure	11½d. 11½d. ...	9/9	
—	“ “ “ “	...	1/3	... 12/5
—	“ “ “ “	...	3/-	... 30/-
—	“ “ Seaweed Tonic	...	1/3	... 12/5
—	“ “ “ “	...	3/-	... 30/-
—	“ “ Nasal Tablets	...	3/-	... 30/-
—	“ “ Lightning Fluid	...	1/3	... 12/5
—	“ “ “ “	...	3/-	... 30/-
—	“ “ Ointment	...	3/-	... 30/-

£ s. d.

Signed

£

Address

BEECHAM'S PILLS.

REVISED PRICES.

Beecham's Pills :

1s. 3d. size	...	...	...	...	...	10s. 6d. per doz. net.
3s. 0d. "	...	...	...	...	...	26s. 6d. " "
5s. 0d. }	new size	...	...	...	...	50s. 0d. " "
{ contains double the quantity of 3/- box.						

Beecham's Cough Pills :

1s. 3d. size	...	...	...	...	...	10s. 6d. per doz. net.
3s. 0d. "	...	...	...	...	...	26s. 6d. " "

Beecham's Tooth Paste :

IN COLLAPSIBLE TUBES :

1s. 0d. size	...	...	...	...	...	7s. 6d. per doz. net.
--------------	-----	-----	-----	-----	-----	-----------------------

Orders : Minimum quantity £5 value—approximately. | Packages FREE. Carriage PAID.

These Prices are the lowest no matter what quantity is ordered.

TERMS : CASH WITH ORDER.

Cheques to be made payable to THOMAS BEECHAM, and crossed "Parr's Bank, Ltd., St. Helens."

Pure Rectified Re-distilled Spirit

FINEST QUALITY
S.V.R.

*Quotations and Samples
on application to*

James Calder & Co. Ltd.
Distillers, BO'NESS, N.B.

Telegraphic Address:
"Distillers Bo'ness."

Telephone No. 1
12 Bo'ness.

METHYLATED SPIRIT

Makers of Industrial
and Mineralised Spirit

QUOTATIONS & SAMPLES
ON APPLICATION
TO

RIDDELL & SMITH,
Methylators,
Bo'ness, N.B.

Revised Prices from Oct. 20, 1915.

WHOLESALE PRICE LIST OF
"QUINPHOS"
 THE GREAT TONIC. (REGD.)



ON THE P.A.T.A.

SIZE.		Minimum Retail Price.		Wholesale Price.
Small, 1/3	...	1/3	...	11/6 per doz.
Medium, 2/11	...	2/11	...	27/- "
Large, 5/-	...	5/-	...	48/- "

Liquid or Tablets. Carriage Paid on Orders of £1 upwards.

Write for particulars of special bonus for window show, including free statue shown above.

Sole Makers—

THOMPSON & CAPPER, Ltd., Manufacturing Chemists,
 Manesty Buildings, College Lane, LIVERPOOL.

Telephone: 2060 ROYAL.
 Telegrams: "SANITAS LIVERPOOL."

Established 1843.

SAVE 3/- PER GALLON BY BUYING GUARANTEED GENUINE NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL OF 1915 MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL"

Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F.

Established 1780.

LONDON COLLEGE OF PHARMACY

Principal—HENRY WOOTTON, B.Sc. (Lond.)

Benches may be booked for the following dates—

HALF TERM, November 3.			
Fee to the January Examination	...	£5	5 0
MINOR COURSE, January 5.			
Fee to the April Examination	...	£9	19 6
MINOR (Evening) COURSE, October.			
Fee to the January Examination	...	£1	1 0
MAJOR COURSE, October.			
Fee to the April Examination	...	£13	2 6
APOTHECARIES' COURSE, November 1.			
Fee to the January Examination	...	£5	15 6

The number of students who have passed the Pharmaceutical Examinations from the London College, since its establishment, exceeds that from any other school.

For Prospectus, &c., apply to The Secretary, LONDON COLLEGE OF CHEMISTRY AND PHARMACY, 261 Clapham Road, London, S.W.

BIRMINGHAM & MIDLAND

**COLLEGE OF CHEMISTRY,
PHARMACY AND BOTANY,**

45 NEWHALL STREET, BIRMINGHAM.

Principal—G. L. SCOTT, Pharmaceutical Chemist.

*A short Special Course for the
October Examination began on
August 23.*

**Term commenced on 5th inst., when the
Evening Classes were resumed.**

Full Particulars will be sent on Application.

THE SCHOOL FOR SUCCESS!!
THE

South of England College of Pharmacy.
(Concilio et labore)

186 CLAPHAM ROAD, LONDON, S.W.

Principal—H. LUCAS, Ph.C., F.C.S.
Assistant Master—H. E. ARCHER, Ph.C.

EXAMINATION RESULTS, JULY 1915.

Out of 18 presented for the Minor, 14 passed, or 80 per cent. of the presentation.

Winter Course commences September 27, for Minor and Apothecaries. Fees £9.9.0 and £5.15.6.

Evening Classes, Major, Minor and Apothecaries' Hall commence on October 4. Fees from 1 guinea. Correspondence Classes for Students in town or country. Fees from 1 guinea.

Analytical Tests and Tables, by H. LUCAS, price 2/-. Just published. For all particulars apply—The Principal.

British Optical Institute, Limited,
Fern Lodge, 20a Grove Road, Brixton, S.W.

VACATION CLASSES.

VACATION Classes will again be held during the months of July, August and September. These classes are intended for Opticians who wish to acquire a practical knowledge of Objective and Subjective Sight Testing without necessarily wishing to sit for an examination.

Evening classes will also be held in Glasgow in August and September with a view to the preparation for the F.B.O.A. Examination which is to take place in that centre in September.

The ordinary work of the Institute is not interrupted.

For further information and detailed prospectus apply to the

Principal - - Dr. MAX COQUE, B.Sc.
TELEPHONE: 677 Brixton.

ENGLISH MANUFACTURED PARAFFINUM LIQUIDUM

(Refined from Russian Oils)

Guaranteed to pass all the tests of the BRITISH PHARMACOPŒIA, last edition.

Supplied by

BENJAMIN & CO., 61 St. Mary Axe, LONDON, E.C.

N.B.—Buyers are warned against purchasing so-called Paraffinum Liquidum which does not answer to the requirements of the British Pharmacopœia.

WESTMINSTER COLLEGE

The Oldest Established Private School of Pharmacy in England (1874).

Telephone: 1728 BRIXTON.

Principals—G. S. V. WILLS, Ph.C., &c., P. H. WOODNOTH, M.P.S.

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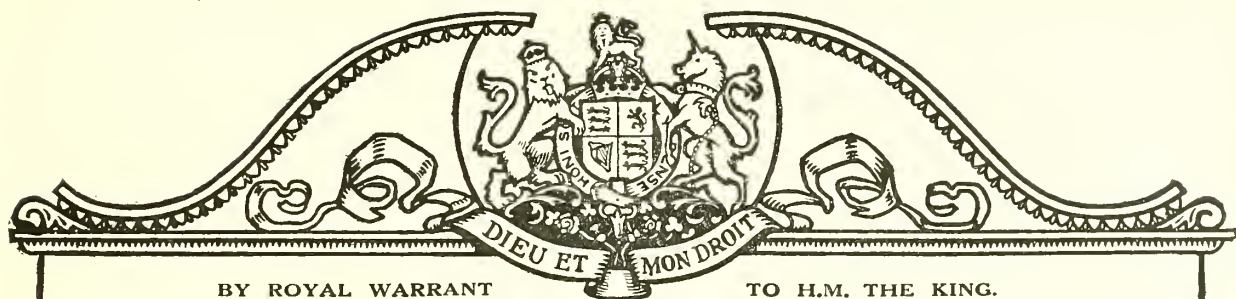
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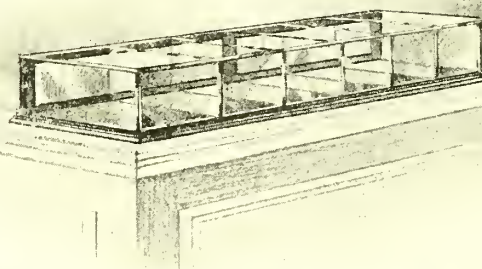
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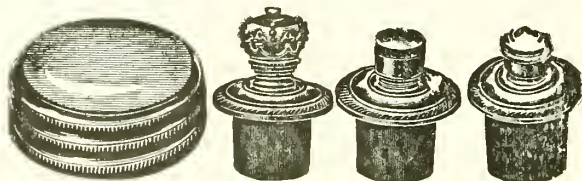


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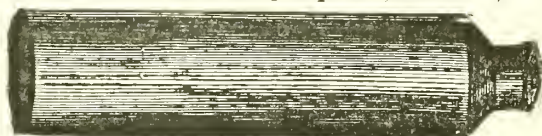
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Summary.

Another winter analytical tournament for pharmacy students is announced on p. 58.

Our market report includes this week a fortnight's arrivals of drugs and allied products (p. 56).

Mr. James Tate, Ph.C., the new President of the Pharmaceutical Society of Ireland, figures on p. 57.

An interesting explanation of how to arrange for payment of commission to chemists' assistants is printed on p. 47.

Retail chemists as represented by the L.A.C. do not want their staffs exempted from conscription (p. 40); wholesalers do (p. 50).

If any more *C. & D.* subscribers want their formulas for exempted remedies inserted in the *C. & D. Diary*, 1916, they must post them to us on Monday.

We sum up the Insurance dispensing position as it was on Thursday in a note on p. 44, and refer readers to the Contents above for other references.

The way that the South African Field Force detected German-poisoned water in the South-West African campaign is told by Mr. John Parry on p. 46.

Associations' Winter Session reports are this week included in our Coloured Supplement with some other matters for which there was no space in the pages succeeding this.

The proposed repeal of import-duties on imported alcoholic products is being vigorously opposed by chloroform and ether manufacturers. The position is explained in an editorial on p. 44.

The increased medicine-duty came into force on Wednesday. Many manufacturers advertise in this issue the changes they have made (see p. 41). The new clause was passed by the House of Commons on Tuesday. Mr. Glyn-Jones has delayed his amendments to the Report stage (p. 41).

European War.

(War News in "*C. & D.*" October 21, 1915.)

British men of learning replied to the German professors' manifesto. We reported a proposal to found a German glycerin exchange, the object of which was to make Germany independent of foreign countries in regard to glycerin, which was beginning to be a scarce commodity in Germany. The law as to trading with the enemy began to be made clearer by the Courts, the most important decision in this respect being in regard to the Cheshire works of Meister, Lucius & Brüning, Ltd., of which Sir William Plender was appointed controller, on the application of the Board of Trade.

Pharmaceutical Roll of Honour.

Non sibi sed patriæ.—CICERO.

FIFTY-SEVENTH LIST.

ALLAN, Private W. S. (formerly with Taylor's Drug Co., Ltd., Harrogate), 1st/5th Battalion West Yorkshire Regiment.

BURNETT, Private ALEXANDER (former apprentice of Mr. J. L. Gammie, chemist, Macduff), 1st/6th Battalion Gordon Highlanders. Private Burnett is reported missing, and is believed to be a prisoner of war in the hands of the Germans.

SARA, F. I. II. (third son of Mr. H. Sara, chemist, Framlingham, Suffolk), Royal Naval Air Service. The two elder sons of Mr. Sara are engaged on Government work.

Trade with China and Siam.

The "London Gazette" (October 15) contains a list of additions and corrections to the lists already published of persons to whom goods to be exported to China and Siam may be consigned. Altogether thirty-six names have been added to the Chinese list, including the Japanese Red Cross Hospital and the Morgan Crucible Co., Ltd. The Siamese list contains thirty-eight additional names, including the Apothecaries' Hall, Bangkok.

Contraband of War.

The "London Gazette" (October 15) contains a Proclamation revising the list of articles to be treated as contraband of war. All previous lists have now been withdrawn, and among the articles of interest to the chemical trades which are to be treated as absolute contraband are: Paraffin wax; materials used in the manufacture of explosives, including nitric acid and nitrates of all kinds; sulphuric acid; fuming sulphuric acid (olcum); acetic acid and acetates; barium chlorate and perchlorate; calcium acetate, nitrate, and carbide; potassium salts and caustic potash; ammonium salts and ammonia liquor; caustic soda; sodium chlorate and perchlorate; mercury; benzol; toluol; xylol; solvent naphtha; phenol (carbolic acid); cresol, naphthalene, and their mixtures and derivatives; aniline and its derivatives; glycerin; acetone; acetic ether; ethyl alcohol; methyl alcohol; ether; sulphur; urea; cyanamide; celluloid; manganese dioxide; hydrochloric acid; bromine; phosphorus; carbon disulphide; arsenic and its compounds; chlorine; phosgene (carbonyl chloride); sulphur dioxide; prussiate of soda; sodium cyanide; iodine and its compounds; capsicum and peppers; tanning-substances of all kinds, including quebracho-wood and extracts for use in tanning; mineral oils, including benzol and motor-spirit; resinous products; camphor and turpentine (oil and spirit); wood tar and wood-tar oil; rubber; lubricants; sodium metal; aluminium, alumina, and salts of aluminium; antimony, together with the sulphides and oxides of antimony; tin, chloride of tin, and tin ore. Conditional contraband articles include: Feeding-stuffs for animals; oleaginous seeds, nuts, and kernels; animal, fish, and vegetable oils and fats other than those capable of use as lubricants, and not including essential oils.

Exportation Notices.

According to a Ministerial Decree of September 20 the following substances have been added to the list of articles the exportation of which from Austria-Hungary is prohibited: Glauber's salt, Emsom salt, hydrogen peroxide, lime hypochlorite, and lysoform.

NETHERLANDS.—By Royal Decree of October 2 the exportation of honey in all forms from the Netherlands is prohibited. The exportation of milk and all milk-products has also been prohibited.

RUSSIA has prohibited the exportation, *via* all frontiers of the Empire, of calcium acetate, chloride of tin, yellow wood, chestnut, oak, and other plants containing dyeing and tanning substances. Exceptions from these prohibitions will, however, be made in favour of Allied and friendly countries.

SWITZERLAND.—A Federal Decree, dated October 9, prohibits the exportation of bleaching-powder.

UNITED KINGDOM.—A supplement to the "London Gazette," dated October 13, contains an Order in Council setting forth:

That the heading "Salts of aluminium (other than alunite and nitrate of aluminium)" in the list of goods the exportation of which is prohibited to all foreign countries in Europe and on the Mediterranean and Black Seas, other than France, Russia (except through Baltic ports), Italy, Spain, and Portugal, should be deleted, and there be substituted therefor the heading "Salts of aluminium (other than alunite, ammonium alum, and nitrate of aluminium, the exportation of which is already prohibited to all destinations abroad other than British Possessions and Protectorates)."

That the exportation of the following goods should be prohibited to all destinations abroad other than British Possessions and Protectorates: Stearine pitch and other pitches derived from fatty oils and acids.

That the exportation of the following goods should be prohibited to all foreign countries in Europe and on the Mediterranean and Black Seas, other than France, Russia (except through Baltic ports), Italy, Spain, and Portugal: Borax, boric acid, and other boron-compounds; desiccated coconut.

Personalia.

SERGEANT R. P. WHITE, R.A.M.C., chemist and druggist, son of Mr. W. Everard White, chemist and druggist, Gainsborough, has been invalided from the Gallipoli Peninsula to Valetta Hospital, Malta.

SERGEANT HARRY NUTTALL ("BOB") STROUD, Leicestershire Yeomanry, son of Mr. N. H. Stroud, director of John Richardson & Co. (Leicester), Ltd., manufacturing chemists, has been granted a commission in the South Notts Hussars. Lieutenant Stroud left Leicester with the first draft of the Leicestershire Yeomanry on the outbreak of war as a trooper, and has been at the Front just over twelve months.

MR. G. CALVERT MCGONIGAL, who during the past four years has been with Mr. G. Stuart Jones, chemist, Durban, arrived in London last week, having come home with a view to joining the Colours. Mr. McGonigal served his apprenticeship with Davidson & Gray, Dundee, and after qualifying came to London. He was one of the first to join General Botha's Army, and served as a staff-sergeant in the South African Medical Corps.

Miscellaneous.

PATENTS AND DESIGNS.—An Order in Council has been made under the Defence of the Realm Consolidation Acts and the Munitions of War Act giving power to the Comptroller-General of Patents, Designs, and Trade-marks, to delay the publication of any patent specification or design if he is satisfied that the publication might be detrimental to the public safety or defence of the realm, or might otherwise assist the enemy or endanger the successful prosecution of the war. Regulations embodying these provisions have been made.

A MANCHESTER AMBULANCE SECTION.—Mr. A. Newton (Oldfield, Pattinson & Co.) informs us that it is proposed to form an Ambulance Section in connection with the Manchester (Service) Rifle Club Volunteer Training Corps, the only unit in the Manchester Volunteer Regiment that is armed with the Service rifle, and that pharmacists are invited to join in the capacity of ambulance men. Pharmacists desirous of joining the new section, for which twelve men are required, are requested to send their names to Platoon-Sergeant A. Newton, 20 Salisbury Drive, Prestwich, or to attend in person on Tuesday evenings from 6.30 to 8.30 p.m. at the headquarters of the 8th Manchester Territorials, Ardwick Green, Manchester.

PHARMACIST VOLUNTEER TRAINING CORPS.—The following appointments and promotions are announced: Company-Commander Leslie Durno, M.D., to be honorary medical officer; Platoon-Commander Scott to be honorary ambulance officer; Sergeants Greatrex, Wiltshire, Skues, and Hutchinson to be commanders of A, B, C, and D Sections respectively, with rank of platoon-commanders; Sergeant Mills, Corporals Anderson, Harris, and Hillman to be staff-sergeants; Corporal Wade, Lance-Corporal Paterson, Privates Tugwell and Richards to be sergeants; Privates Keith, Watson, Cole, Tucker, Kelf, Foulis, Shirliffe, and Baines to be corporals; Privates Palmer, Hanson, Hart, and Woodnoth to be lance-corporals; Private Noble to be quartermaster-sergeant; Private Stuckie to be orderly sergeant; Corporal Cole and Private Allen, of A Section, will be on orderly duty at Headquarters on October 27; Privates Kirkpatrick and Lloyd (on October 23). All these appointments, excepting officers, are temporary. A further examination will be held after Christmas.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Current Retail Prices.

The minimum prices reported last week (p. 35) as having been agreed upon by the S.E. London Pharmacists' Association referred to the Greenwich members only, who form a sub-district of the Association.

Earlier Closing for London.

The Early-closing Association is meeting with success in its eight-o'clock closing campaign throughout the Metropolis, this improvement having now been secured in upwards of fifty districts. There is, however, an impression that the Association is advocating in certain localities an 8.30 closing-time, and not taking full advantage of the desire to close at 8 p.m. Captain Albert Larking, the Secretary, assures us that this not the case, but that 8.30 is only accepted in districts where firms have been closing at 9 p.m. or later, and cannot be induced at once to advance to eight o'clock. The ultimate goal of the Association is a closing not later than 7 p.m. on three nights, 8 p.m. on Fridays, and 9 p.m. on Saturdays, as laid down in the Board's Memorandum issued in May.

Contracts for Drugs, etc.

The following particulars regarding contracts for drugs, etc., have been received during the week:

Alton (Hants) Guardians.—Trimming & Co., Ltd., chemists, drugs.

The London County Council has allowed an increase in price on their contract with Barrett & Elers, Ltd., for the supply of compressed gases.

Stafford Guardians.—J. & H. Averill, pharmaceutical chemists, drugs and appliances.

Stockport Guardians.—W. S. Rothband & Co., red-rubber sheeting (8s. 9d. per yard).

Tottenham Urban District Council has been recommended to extend existing contracts for disinfectants to March 31, 1916.

Government Contracts.

The following new Government contracts have been notified during August 1915:

WAR OFFICE.—*Brushes*: The contractors for these include: R. Addis & Son, E. Bennett & Co., Ltd., Bidwell, Bidwell & Co., Ltd., Brushes, Ltd., R. Chase & Son, A. W. Cook, Davis, Burrow & Sons, Ltd., W. Edwards & Sons, Ltd., F. Foulger & Co., Hindes, Ltd., Holdfast Tooth-brush Co., R. J. Jewell, G. B. Kent & Sons, Ltd., Knight & Son, Ltd., S. Maw, Son & Sons, M. Neuhafer & Levi, T. Osborne & Sons, S. D. Page & Sons, Ltd., Rigby Batcock, Ltd., W. R. Tilbury & Co., and Titterton & Howard. *Chloride of Lime*: United Alkali Co., Ltd. *Chloride of Lime* (term contract): Electric Bleach and By-products, Ltd., United Alkali Co., Ltd. *Disinfectants*: S. Bowley & Son, "Killgerm" Co., Ltd., T. Moscrop & Co., Ltd., Newton, Chambers & Co., Ltd., Phoenix Sanitary Co., South Metropolitan Gas Co., Standardised Disinfectants Co., Ltd. *Formaldehyde*: A. Ashworth. *Medicines*: Boots Pure Drug Co., Ltd., The British Drug Houses, Ltd., Burgoyne, Burbidges & Co., Burroughs Wellcome & Co., E. H. Butler & Son, A. H. Cox & Co., Ltd., Davies, Sons & Co., Johnson & Sons, H. & T. Kirby & Co., Ltd., Matthews & Wilson, Ltd., May & Baker, Ltd., Parke, Davis & Co., Standard Tablet and Pill Co., Ltd., Willows, Francis, Butler & Thompson, Ltd. *Medicines* (term contract): Burroughs Wellcome & Co., Burgoyne, Burbidges & Co. *Methylated Spirit*: Sutton, Carden & Co., Ltd. *Methylated Spirit* (term contract): J. Burroughs, Ltd. *Solution, Viscose* (term contract): Viscose Development Co., Ltd. *Surgical Instruments and Materials*: Allen & Hanburys, Ltd., Anderson & Whitelaw, Ltd., Arnold & Sons, C. Ash, Sons & Co., Ltd., Baiss Bros. & Stevenson, Ltd., J. Bell & Croyden, Ltd., A. Berton, Ltd., Burgoyne, Burbidges & Co., Burroughs Wellcome & Co., Carnegie Bros., Cuxson, Gerrard & Co., Ltd., Down Bros., Ltd., A. E. Evans, Goldschmidt, Schmelz & Co., W. Gowland, Ltd., J. L. Hancock, Ltd., P. Harris & Co. (1913), Ltd., J. L. Hatriek & Co., Ltd., Hawksley & Sons, J. G. Ingram & Son, Leyland and Birmingham Rubber Co., Ltd., J. F. Macfarlan & Co., May, Roberts & Co., Ltd., North British Rubber Co., Ltd., Robinson & Sons, Ltd., T. J. Smith & Nephew, Ltd., Southall Bros. & Barclay, Ltd., Surgical Manufacturing Co., C. F. Thackray, J. Tinspon & Co., Ltd., Vernon & Co., Ltd., W. Vernon & Sons, and J. Weiss

& Son, Ltd. *Tetanus Antitoxin*: Burroughs Wellcome & Co., T. Christy & Co. *Tetanus Antitoxin* (term contract): Burroughs Wellcome & Co. *Thermometers*: Down Bros., Ltd., A. Lee & Co., Mayer & Meltzer, Perken, Son & Co., Ltd., C. F. Pizzala & Co., G. H. Zeal.

H.M. STATIONERY OFFICE.—10,000 log-books, Suttley & Silverlock, Ltd.

CROWN AGENTS FOR THE COLONIES.—*Linsced Oil*: Stanley Earle & Co.

INDIA OFFICE: STORE DEPARTMENT.—*Acid Carbolie*: R. Graesser, Ruabon. *Acid Acetylalicylic*: May & Baker, Ltd. *Bismuth Subnitrate*: T. Morson & Son, Ltd. *Essences*: Brand & Co. *Extract Belladonnae*: Stafford Allen & Sons. *Paraldehydeum, etc.*: May & Baker, Ltd. *Quinine Hydrochlor.*: Parke, Davis & Co. *Sodium Salicylates*: W. J. Bush & Co. *Tablets*: Parke, Davis & Co.

POST OFFICE.—*Chloride of Ammonia*: Brunner, Mond & Co., Ltd. *Oil, Sperm*: Price's Patent Candle Co., Ltd.

PRISON COMMISSION.—*Drugs*: Baiss Bros. & Stevenson, Ltd. *Soap*: John Knight, Ltd.

Harrogate.

During the season there have been many visitors connected with pharmacy. These included Sir Thomas Barclay, Sir Joseph Beecham, Mr. S. Kutnow, and Mr. J. H. Robinson (Liverpool). Some of these visitors called on the local chemists. It helps to make pharmacists realise their unity if chemists from other towns who are on a visit look in instead of merely examining the windows.

The winter programme of the Harrogate and District Pharmaceutical Association is on very modest lines this year. The members feel that social functions are out of keeping at the present time. The annual dinner has been abandoned. The first meeting will be held on November 5, when the President, Mr. O. R. Windemer, will give his presidential address. During the session two medical men are to give lectures.

Mr. T. W. Crosby, who took over the branch business of Handford & Dawson in Montpelier Parade, enlisted in the R.A.M.C. He has been acting as dispenser in sole charge of a dispensing station in the Dardanelles, his business being left in charge of a manager. Now he is at Brockenhurst, in the New Forest, having been invalidated home with dysentery, from which he is rapidly recovering. He has been promoted to the rank of sergeant.

Leeds.

It is stated that four chemists on the panel have not yet accepted the emergency settlement for 1914.

Leeds chemists are busy this week adjusting extra stamps on patent medicines and readjusting prices.

The local Chemists' Association recommend the following minimum prices: Ammoniated tincture of quinine, 4d. per oz.; sweet spirit of nitre, 4½ per oz.; tab. phenacetin (25), 1s. 8d.; and tab. phenacetin co. (25), 1s. 8d.

Liverpool.

On dit that a well-known pharmacist is about to enter the medical profession.

Mr. John H. Robinson, Secretary of the Liverpool Chemists' Association, returned from Harrogate on Tuesday, having benefited greatly by the "cure."

A pharmacist in the district runs a branch post-office, the yearly revenue extending well into five figures. His remuneration works out at 6s. 8d. per 100l. or 0.33 per cent.

Considerable interest attaches to the next meeting of the Liverpool Chemists' Association. The President for the ensuing year is to be chosen, and a paper on "Lost Profits in the Drug-trade" will be read by "Jay Mack."

Over 50 per cent. of the young men in the pharmaceutical line in Liverpool have joined the Colours. Many of those remaining are being kept back only because their services are required by the country in the laboratories or for dispensing.

Sea-water plasma, which was introduced by French physicians about two years ago as a therapeutic agent, is still in good demand from a local firm. The pure sea-water is obtained in sterilised jars sunk to a depth of five fathoms at least twenty miles off the north-west

coast of Ireland, and the isotonic plasma is prepared under scrupulously aseptic conditions in a specially constructed dust proof room, to which only two persons have access.

Sheffield.

A general move has been made in Sheffield with a view to securing earlier closing. A card appears in most business establishments giving the proposed hours during winter.

Colonel Connell, the officer commanding the 3rd Northern General Hospital, is issuing war-service badges to civilian pharmacists who are on the staff of any military *annexe* under his command.

After a prolonged discussion by the Sheffield Medical Committee, in which strong protests were made against the drug-accounts being made a first charge on the Medical Benefit Fund, it was decided to agree to the acceptance of the Departmental Committee's Report as a whole.

Alderman Dunn, Ph.C., Shipley, as Chairman of the West Riding Education Committee, has asked for support for the preliminary classes to be held at Castleford, Knottingley, and Mexborough, by lecturers from the University of Sheffield, on glass-manufacture. Alderman Dunn hopes these experimental classes will have far-reaching results.

Miscellaneous.

WINE-LICENCE.—The Hatfield (Herts) Bench on October 4 transferred the off-licence held by the late Mr. James Cox, chemist and druggist, at Fore Street, Hatfield, to his son, Mr. Harry Cox.

TOO MUCH LIGHT.—At Chelmsford, on October 8, Mr. James B. Carr, chemist and druggist, Ingatstone, Essex, was fined 1l. for permitting a bright light to shine across the road through the open door of his pharmacy on the evening of October 4.

STAMPING PATENT MEDICINES.—One result of the new medicine-duties is illustrated in a photograph reproduced in the "Sunday Pictorial" of October 17, in which a number of girls are shown affixing the additional stamps to the packages in a London clearing-house.

SHOPS ACT.—The Birkenhead Town Council on October 9 issued an order for chemists and druggists to close at 8.30 p.m. on Mondays, Tuesdays, and Wednesdays; 1 p.m. or 8.30 p.m. on Thursdays; 9 p.m. on Fridays; and 10.30 p.m. or 1 p.m. on Saturdays. The order is not to apply to the fourteen weekdays preceding December 25 or to the weekdays prior to Easter Monday, Whit-Monday, and the August Bank-holiday.

WHOLESALE DRUGGISTS' HOURS.—A London wholesale druggist, with whom negotiations have been proceeding with the National Amalgamated Union of Shop-assistants, Warehousemen, and Clerks for some time respecting the maximum working-week for the staff, have by a rearrangement of the lunch and tea time amicably settled the matter, and the staff is now working a forty-eight-hour week. The whole of the staff is now working under the Union's programme for the Metropolitan area.

OPIMUM-SMUGGLING.—At West Ham Police Court on October 20, seven Chinamen were charged, on remand, with attempting to take on board ships in the Royal Albert Docks 274 lb. of opium. It was stated that Ah Sing, or Ching Yang Chee, one of the defendants, was a constant associate of Chinese, and evidently an agent for the others. He was ordered to pay 100l. or go to gaol for six months. Three of the others were fined 50l. each, or three months' imprisonment, and the remaining three 25l. each, or two months' imprisonment.

POISONING CASES.—Two of the four deaths due to poisons reported during the week were suicidal cases, the poisons used being carbolic acid and sheep-dip. A man died at Lancaster from belladonna poisoning, and a convalescent Canadian soldier died through taking an overdose of heroin. At the inquest on the latter it was stated that deceased and another Canadian soldier, who had also recovered from wounds, had in their possession what they called "snow-snuff." This proved to be heroin, which the soldiers seemed to be able to obtain in France. They took it by placing some on the back of the hand and sniffing it up the nostrils. A medical witness stated that this method of inhaling it is new and, taken thus, it acts more quickly. It would probably be taken by soldiers for the soothing sensation it produces and to banish fear. The jury returned a verdict of death by misadventure.

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Dundee.

At Dundee Stamp Office on Wednesday morning 30^l. worth of new medicine stamps were sold. All the demands for 1½^d. stamps could not be met till arrival on Thursday of fresh supplies.

There has been a great increase in the demand for methylated spirit since the severe restrictions on the purchase of whisky came into force. When asked for what purpose it is wanted, the reply is for window-cleaning or French polishing!

Edinburgh.

In the High Court of Justiciary in Edinburgh on October 18, Charles Anthony Alder, herbalist and homeopathist, was tried upon a charge of having caused the death of an Edinburgh woman by performing an illegal operation. Summing up, the presiding Judge (Lord Scott Dickson) directed the jury that the charge of murder was not justified by the evidence, but it was a question for them whether defendant was guilty of culpable homicide. The jury unanimously found the charge not proved.

The report of the directors and balance-sheet of St. Cuthbert's Co-operative Society for the half-year ended September 7, 1915, to be submitted to the half-yearly general meeting of the members on October 26, shows that the net sales of the six branches of the drug-department during the period under review were as follows: Bread Street, 1,620^l. 11s. 9^d.; Tynecastle, 868^l. 11s. 8^d.; Hamilton Place, 543^l. 2s. 3½^d.; Nicholson Street, 767^l. 1s. 10^d.; Montrose Terrace, 365^l. 16s. 5½^d.; and Haddington Place, 518^l. 2s. 9½^d. The net profits were: Bread Street, 753^l. 2s. 10^d.; Tynecastle, 345^l. 13s. 9½^d.; Hamilton Place, 85^l. 7s. 10^d.; Nicholson Street, 283^l. 7s. 5^d.; Montrose Terrace, 78^l. 19s. 10½^d.; Haddington Place, 173^l. 13s. 0½^d.; and Haddington Place (whole-sale), 104^l. 15s. 6^d.

Fife.

The "bulb" season is now in full swing in all parts of the country, and hyacinth, crocus, daffodil, and other bulbs are to be seen in the windows of many pharmacies.

It now transpires that many doctors who attended soldiers' and sailors' dependants, and prescribed liberally, were, in some cases, receiving through trade-unions the usual weekly allowance for medical attendance to the families of members, the soldiers' or sailors' membership-fees being kept up by their fellow-workmen.

The effect of the circular issued last week to panel practitioners and chemists has been most gratifying. The labour entailed in writing out repeats has been placed on the proper shoulders, and doctors are now using "C" forms more frequently. In some cases doctors are prescribing larger quantities to save frequent repeats. This must tend to conserve the Drug Fund, and must consequently benefit the chemists. Fifeshire chemists may therefore look forward to a bonus in the future, instead of a discount. The Bureau has apparently touched the right lever.

Glasgow and the West.

Cod-liver oil window-shows are numerous in the city this week. Bottles containing a dilute solution of bichromate of potassium are used as "dummies." The imitation defies detection from the point of view of colour, and makes a very pleasing display.

The official notice issued by the Board of Customs and Excise (as reproduced in the *C. & D.*, October 16, p. 45) has been exhibited in the windows of many city pharmacies, with the result that during the week-end there was again a great business done in popular patents at the old prices.

On October 14 the Duchess of Montrose formally opened the National Military Hospital at Bellabonston, Glasgow. The hospital will accommodate 700 patients, and is equipped in the most modern manner. The operat-

ing-theatre has accommodation for two operating-tables, and in the same section are an x-ray-room, drug and anæsthetic rooms, developing-room, sterilising-room, instrument-room, and store-rooms for dressings. Equally well-equipped is the pathological block, which includes electrical-appliance room, clinical-room, incubator-room, and sterilising-room.

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Pharmaceutical Society of Ireland.

The following are the results of the recent examinations:

Registered Druggist Examination.—Evelyn Briggs, Swinford, passed. Two candidates were rejected.

Pharmaceutical Licence Examination.—Herbert Mackey, Ennis; Patrick Owens, Baltinglass; and Michael Joseph Corbett, Foynes, passed with honours. The following also passed: Michael Henry Jeffares, New Ross; John Joseph FitzGibbon, Limerick; John Martin Poots, Newtownards; and Isaac Mark Fisher, Dublin. Nine candidates were rejected.

Pharmaceutical Assistant Examination.—Maurice John Bunyan, Dublin, passed.

The Council will on November 9 proceed to the appointment of examiners to conduct examinations as under-mentioned: (a) The Materia Medica and Botany Division of the Pharmaceutical Licence examination; (b) the Pharmaceutical Assistant examination; and (c) the Registered Druggist examination. Further particulars are given in an advertisement in the Coloured Supplement in this issue.

Brovities.

The Tipperary chemists have agreed under a 30^l. penalty not to give Christmas-boxes this year-end.

Magner & Co., Ltd., have opened a new druggists' establishment at 15 Prince's Street, Cork.

Dr. Kearney has been appointed dispenser at the Westmeath Co. Infirmary at a salary of 50^l. per annum.

Fire broke out on the premises of William Dobbin & Co., wholesale chemists, North Street, Belfast, on October 16. The fire was, however, extinguished by the employés, with the result that the damage was small.

On October 22 the clerical and departmental staff of the chemical and drug firm of Hugh Moore & Alexanders, Ltd., Bolton Street, Dublin, presented Mr. F. W. Jameison with a purse of sovereigns on his leaving the company to take up a position in Birmingham.

Dr. Robert Gray, F.R.C.P., writing in reference to his resignation of his position as dispensary officer to the Armagh Union (*C. & D.*, October 9, p. 40), informs us that he has never been connected with the City Drug-hall or any other compounding establishment.

Private R. Barklie, who has been serving for some time in the 2nd 6th Battalion Black Watch, and who has just received a commission in the 3rd Battalion King's Own (Royal Lancaster) Regiment, is a son of the late Mr. Robert Barklie, who was for many years public analyst of Belfast.

At the meeting of the Belfast and Ulster Mineral-water Manufacturers' Association it was unanimously resolved that owing to special circumstances due to the war and the continued increased cost of sugar and other ingredients used in the manufacture of aerated waters, an increase in price of same is necessary. Prices were accordingly raised from October 18.

Sunday Closing.

A meeting was recently held by the chemists of Limerick to consider the shortening of working hours on Sunday owing to the present difficulty of getting qualified assistants. It was unanimously decided to keep pharmacies open on Sundays for urgent requirements at the following hours: 10 to 11 A.M., 2 to 3 P.M., and 8 to 9 P.M. The new arrangements will come into force on Sunday, October 31.

French News.

(From the "C. & D." Paris Correspondent.)

MR. V. RENNEBOOG, a Belgian pharmacist well known in England, who has been giving his services to the Red Cross Organisation, is now engaged in business in Paris.

OBITUARY.—M. J. Henri Fabre, the great French entomologist who died at his residence at Sevignan (Provence) on October 11, was styled by Victor Hugo the "Homer of the insect world," and alluded to by Darwin as an "inimitable observer." Of humble origin, he was born in an Avignon village on December 22, 1823, and although his life lasted over the best part of a century, he was never in easy circumstances. Brought up by a peasant grandmother, he received his early instruction from his godfather, who at St. Leon's fulfilled the functions of schoolmaster, barber, choirmaster, and bellringer. He seems, however, to have persevered in his studies, for at nineteen he had gone through a high school and obtained a post as teacher at 32*l.* a year, an income which was doubtless more than sufficient for his always simple wants, as he ventured on matrimony a few years afterwards. It was when he obtained a post as Professor of Chemistry at the Avignon Lycée, that, anxious to supplement his scanty income sufficiently to enable him to buy the entomological works which were already his favourite study, he took up research work in organic chemistry. He is credited with having isolated the colouring principle of "garance"; but his hopes of success in this direction were destroyed by the discovery of synthetic alizarine, and he finally retired to his country home, took up his lifework, and abandoned the more remunerative side of modern science. He lived in an old house surrounded by a vast, and half wild, garden—a place propitious to the study of insect life—and he made a little money by writing educational works. His first book appeared in 1865, but his most remarkable production, his ten series of "Entomological Souvenirs," were published between 1879 and 1910. Buried in his out-of-the-way village, and entirely forgotten by the general public, he was known and respected by some leading men; Victor Duruy, Pasteur (who occasionally visited his hermitage), Stuart Mill, etc., were all among his personal friends and admirers. His ninetieth birthday was the occasion of national and official recognition of his services to science, and President Poincaré, when touring in the South, did not fail to add his personal tribute.

Legal Reports.

Trade Law.

Liability for Window-breakage.—At Stoke-on-Trent County Court, before his Honour Judge Ruegg, K.C., on October 13, Mr. J. A. Dale, chemist and druggist, 30 High Street, Stoke-on-Trent, was awarded 14*l.*, the cost of replacing a window broken by a 'bus belonging to the Greater Omnibus Services, Ltd.

Gas Cylinders.—At the Lambeth County Court on October 15, Judge Parry awarded Barrett & Elers, Ltd., 3*l.* 14*s.* 6*d.*, with costs, against Barnard & Co., Ltd., dairy outfitters, Arch 47, Vauxhall, Lambeth, S.E., being ½*d.* per day rent for fourteen carbonic-acid gas cylinders. The claim originally was for 3*l.* 10*s.*, or 14*s.* per cylinder, but before the hearing the defendants had returned the cylinders and agreed to pay the rent.

Ownership of a Business.—The hearing of the case Taylor v. Colvin (*C. & D.*, October 16, p. 38) was resumed at the Sheriff Court, Glasgow, before Sheriff Mackenzie, on October 18, when several witnesses were examined on behalf of the pursuer, Mr. James Taylor, wholesale chemist, Trongate, and in regard to the Insurance dispensing done at the shop, 245 Crown Street, Glasgow, now owned by the defender (Dr. Colvin). After the hearing, his Lordship intimated that he took the case to *avizandum*.

Sale of Scientific Apparatus.—At the Burton County Court, before Judge Alan MacPherson, on October 14, Francis Hallam, Ltd., chemists, High Street, Burton, sued Philip Harris & Co. (1913), Ltd., of Birmingham, for 16*l.* 15*s.* 6*d.*, being the balance of payment for goods supplied.

Mr. T. F. Dunncliffe appeared for the plaintiffs and Mr. W. Birkett for the defendants. Mr. Dunncliffe explained that the plaintiff company had on their hands a stock of apparatus which became more valuable owing to the war, and agreed to sell the goods to the defendants on condition that they bought all or none at the schedule price. The apparatus, as scheduled, amounted to 64*l.* 1*s.* 6*d.* net, and 46*l.* 17*s.* 7*d.* was paid on account in July, making, with a contra account of 13*s.* 5*d.*, a balance due to the plaintiffs of 16*l.* 15*s.* 6*d.* Defendants had paid 5*l.* into court under a denial of liability. Mr. Birkett applied for the case to be remitted to Birmingham, where the detailed terms in dispute could be referred to arbitration. He complained of the inconvenience of having to pack and convey so many delicate instruments again to Burton, but his Honour referred the case to the Registrar of the Burton County Court for a report.

A Chemist's Estate.—The case of Bucher v. Maw was again mentioned to Judge Gent at the Truro County Court on October 12. We reported on August 7 (p. 42) that his Honour had granted to S. Maw, Son & Sons an administration order on the estate of the late W. H. Bucher, chemist and druggist, Truro, who died on January 6, 1914. Mrs. Bucher was executrix under the will, but was unable to meet her husband's debts or to realise the business, and undertook to carry it on with the purpose of endeavouring to sell it as a going concern, which she did last June, as already reported. Mr. Adams now stated that Mrs. Bucher is almost destitute, having nothing but an annuity of 12*l.* or 13*l.* Mr. E. L. Carlyon said that if Mrs. Bucher had realised the estate the creditors would have been much better off. Mr. Cannon, who had managed the business, and the landlord had been paid in full, but the rest were not likely to get much out of it. It was decided that the principal creditors should be informed as to the position, and their opinion invited on the suggestion that the first payment from a balance of 79*l.* 9*s.* 5*d.* paid into court should be for costs, and the rest divided in such a way that the deceased's own creditors should have no advantage over the subsequent creditors.

Limited Companies.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

BERKS PHARMACY, LTD. (P.C.).—Capital 1,000*l.* Objects: To take over the business of W. R. Rednall, wholesale and retail chemist and druggist, 1 Market Place, Wokingham, Berks, and elsewhere. The first directors are W. G. Stevens, G. E. Tildesley (secretary), and W. J. Tildesley. R.O., as above.

BRITISH SALICYLATES, LTD. (P.C.).—Capital 2,100*l.* Objects: To carry on the business of wholesale or retail manufacturing chemists and druggists, etc., and to adopt an agreement with M. T. Callimachi. The subscribers (F. J. Say, Beddington Corner, Surrey, and C. T. Woosnam, Honor Oak Park, S.E.) are to appoint the first directors.

THOMAS MORSON & SON, LTD. (P.C.).—Capital 50,000*l.*, in 1*l.* shares. Objects: To take over the business of manufacturing chemists, etc., carried on at 14 Elm Street, Gray's Inn Road, and Ponder's End, Enfield, as Thomas Morson & Son, to carry on the same and the business of wholesale and retail manufacturing, analytical, consulting, and general chemists and druggists, etc. The first directors are T. P. Morson and A. R. Morson (life directors), T. D. Morson, L. J. Morson, and Dr. C. S. Roy. Remuneration of life directors, 1,000*l.* each per annum. R.O., 14 Elm Street, as above.

BETT'S BRITISH FOIL FACTORIES, LTD. (P.C.).—Capital 75,000*l.* Objects: To carry on in the U.K. and elsewhere (except France) the business of manufacturers of and dealers in tin, silvering, and other foil of all kinds; to acquire and carry on the foil-rolling branch of the business of Betts & Co., Ltd., in the U.K., and the business of manufacturers of and dealers in patent and other packages, tin cases, canisters, and boxes, etc. The first directors are O. H. Campbell, A. C. C. Campbell, and F. Popple (nominees of Betts & Co., Ltd.), H. C. Owen and A. P. Jay (nominees of the British American Tobacco Co., Ltd.), and S. E. Boyden (nominee of Erhardt & Co., Ltd.).

Company News.

BRITISH DYES, LTD.—It was announced at the meeting on October 20 of the Huddersfield Corporation that British Dyes, Ltd., has definitely decided upon a site at Huddersfield for the erection of their new works, which are to

cover an area of 250 acres. The company has also acquired an additional 200 acres immediately adjacent. It is expected that the works will eventually give employment to 10,000 workmen.

A. & F. PEARSON, LTD.—The report for the year ended June 30 last, which was briefly referred to in last week's issue of the *C. & D.*, states that the net profit amounted to 78.812%, and with the amount (34,243%) brought forward from 1913-1914, makes a total of 113,060%. The directors recommend a final dividend on the 150,000 ordinary shares at the rate of 20 per cent. per annum from January 27, 1915, transferring to reserve 10,000%, and leaving a balance to be carried forward of 30,000%. The directors announce with extreme regret the death of the senior member of their body, Mr. Edward Hegley Byas, who had been a member of the board from the formation of the company.

INTERNATIONAL PLASMON, LTD.—The annual report states that the net amount at credit of profit-and-loss account—including 4,306% brought forward—is 13,649%. There was paid on April 9 the dividend on the 6 per cent. preference shares for half-year to December 31, 1914, absorbing 720%, and an interim dividend on the ordinary shares at the rate of 8 per cent. per annum, absorbing 1,360%. It is now proposed to pay the dividend on the 6 per cent. preference shares for the half-year to June 30, absorbing 720%; a final dividend on the ordinary shares at the rate of 12 per cent. per annum (making 10 per cent. for the year), which will absorb 2,040%; a bonus in addition of 2½ per cent. on the ordinary shares, which will absorb 850%; placed to reserve account, 1,500%; written off investments, 2,000%; carried forward, 4,459%.

Births.

Authenticated notices are inserted without charge.

BURTON.—At The Pharmacy, Ashwell, Herts, on October 19, the wife of John Robert Burton, chemist and druggist, of a daughter.

SHAW.—At 234 Dowsbury Road, Leeds, on October 15, the wife of Richard G. Shaw, chemist and druggist, of a daughter.

Marriage.

Authenticated notices are inserted without charge.

SINDEN.—**FULLER.**—At Cliftonville Congregational Church, Hove, on October 11, A. E. Sinden, assistant to Mr. S. B. Hardeastle, chemist and druggist, East Street, Brighton, to Mabel Agnes, eldest daughter of Mr. A. E. Fuller, assistant borough surveyor, Hove.

Deaths.

Authenticated notices are inserted without charge.

BEATT.—Suddenly, on October 17, Mr. David Beatt, chemist and druggist, 32 Duke Street, Huntly, aged sixty-six. Mr. Beatt had lately been in comparatively poor health, but was at business the day before his death. He served his apprenticeship in pharmacy in Inverurie, and was subsequently assistant to the late Provost Reid, of Montrose. He had been in business in Huntly for over forty years.

BROUGHTON.—On October 1, Mr. Frederick Richard Broughton, chemist and druggist, 20 Walpole Gardens, Chiswick, London, W., aged fifty-eight.

CAVELL.—At Broad Street, Whittlesea, Cambridgeshire, on October 8, Mr. John Cavell, chemist and druggist, aged seventy.

COLEY.—At Sutton Bridge, Lincolnshire, on October 10, Mr. William Henry Coley, chemist and druggist, aged fifty-four.

FAIRWEATHER.—At Howth, on October 13, Mr. Charles Percival Fairweather, Ph.C., eldest son of the late John Fairweather, Forestalstown, Enniscorthy.

FITZHUGH.—Suddenly, on October 12, Maria Louise, wife of Alderman Richard FitzHugh J.P., Ph.C., Clumber Crescent, The Park, Nottingham, aged seventy-four.

HOGWOOD.—Suddenly, on October 13, Mr. Edward Hogwood, chemist and druggist, 25 Plough Road, Rotherhithe, London, S.E. At the inquest on October 16 it was ascertained that Mr. Hogwood had been out during the Zeppelin raid, and dropped dead in the street owing to heart-failure brought on by excitement.

LACEY.—At 4 High Street, Abingdon, on October 16, Emily Jane, wife of Mr. Richard Lacey, chemist and druggist, Abingdon, aged seventy-one.

PRAGNELL.—At 61 Peckham Park Road, London, S.E., on October 8, Mr. Matthew George Pragnell, chemist and druggist, aged eighty.

RILEY.—At 25 Hyde Road, Gorton, Manchester, on October 7, Mr. John Cowgill Riley, chemist and druggist, aged sixty-three.

SAMUEL.—On October 9, Mr. William Hugh Samuel, for several years dispenser at the Infirmary, Aberystwyth, aged fifty-five.

SMITH.—At 67 Blenheim Terrace, London, N.W., on October 19, Mr. David Frederick Smith (of Sangers'), aged sixty-four. The death of Mr. David Smith removes a well-known figure in the wholesale trade, with which he had been connected since 1864, when he entered the employment of the late John Sanger at 150 Oxford Street. From the first he showed great aptitude for business, and steadily rose, until he was taken into partnership in 1888 by the late Mr. Charles Sanger. Mr. Smith's work lay within the house, and he rendered invaluable aid in the development of the business. In 1914 he was entertained at dinner by the partners and staff, and presented with an illuminated album, on the occasion of the fiftieth anniversary of entering the service of the firm. Although in poor health, he attended business till the end of August. Two of his sons, Mr. Fred. J. Smith and Mr. E. A. Smith, are now members of the firm.

Killed in Action.

BASKER.—In France, on September 26, Second-Lieutenant Hugh Basker, L.D.S., R.C.S. (Eng.), 8th Battalion Somerset Light Infantry, son of Mr. J. A. Basker, Ph.C., Bridgewater, aged twenty-six.

DUFF.—In France, on September 25, Sergeant James Duff, 8th Battalion Gordon Highlanders, aged forty. Sergeant Duff was for some time works-manager in Aberdeen for Allen & Hanburys, Ltd., and subsequently filled a similar position in Glasgow.

Died from Wounds.

COWIE.—In France, Lance-Corporal J. J. Cowie, 7th Battalion Cameron Highlanders, son of Mr. George Cowie, chemist and druggist, 37 Dublin Street, Edinburgh. Lance-Corporal Cowie's younger brother, Private David Cowie, 1st Gordon Highlanders, died from wounds in France in June. His elder brother, Staff-Sergeant George Cowie, chemist and druggist, is in charge of the dispensary of the 3rd London General Hospital, R.A.M.C. (T.F.), a position he has occupied since the outbreak of the war.

Business Changes.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

MR. TAMPLIN has disposed of his pharmacy at 19 Eden Street, Kingston.

MR. T. G. EATO, chemist and druggist, has taken over the old-established business of Mr. J. E. Eastman, Forest Lane, Stratford, Essex, who has retired.

TRIMMING & Co., LTD., chemists, Alton (Hants), have purchased the business of Mr. W. Willis, chemist and druggist, Alresford (Hants), and will carry it on as a branch.

THE BUSINESS of the late Mr. Robert Roberts, chemist and druggist, 8 Bangor Street, Carnarvon, will be carried on by Mrs. Roberts, his widow and executrix, with Mr. Percy Evans, chemist and druggist, as manager.

THE BUSINESS formerly carried on by Mr. H. C. Moses, chemist and druggist, at 25 High Street, Plymouth Grove, Manchester, has been sold to Wild & Salhouse by Mr. Parkin S. Booth, of the Association of Manufacturing Chemists, Ltd.

MR. GEORGE HALLAM, 216 Longfellow Road, Worcester Park, Surrey, who is well known to pharmacists in the South Coast district, having travelled it for the past fourteen years, has been appointed by Arthur H. Cox & Co., Ltd., Brighton, to represent them in the district.

MR. IAN WINK (son of the late John Wink, founder of the business of J. A. Wink & Co., manufacturing chemists, London), who has for many years been connected with the Far East as a buying agent, has been appointed in that capacity for the Tokio Trading Co., Tokio, and his business address will be 5 Union Court, Old Broad Street, E.C.

MR. HENRY J. DALGLEISH, 91 Walworth Road, S.E., has been appointed by Ford, Shapland & Co., chemists' printers, 6 Great Turnstile, London, W.C., to succeed the late David Lane as their representative in the London and suburban district. Mr. Dalgleish for nearly twenty-five years represented the firm in the West of England and elsewhere.

Pharmaceutical Society of Great Britain.

Local Association Delegates

Meet in London on October 20 and 21 for discussion of the New Drug Tariff and other matters.

At one o'clock on Wednesday nearly three hundred pharmacists lunched together in the Crown Room, Holborn Restaurant, preparatory to considering an agenda of business prepared for them by the Executive Committee of the Local Associations Conference, which was called into being under the aegis of the Pharmaceutical Society of Great Britain chiefly for the purpose of ensuring that pharmacists should act as one man, more or less, in regard to pharmaceutical matters arising from the National Insurance Act. This week's meeting was necessary on account of the proposals of the Departmental Committee on the Drug Tariff, and every area in England and Wales was represented, except Huntingdonshire, Isle of Wight, Kesteven (Lincs.), Rutlandshire, and East Suffolk among the English counties; Barnsley, Bootle, Canterbury, Carlisle, Middlesbrough, and Northampton among the English towns; Anglesey, Brecknockshire, Carmarthenshire, Montgomeryshire, and Radnorshire among Welsh counties; and Swansea was the only one of the Welsh towns not represented—according to the printed list. Scotland is a distinct *daygaird* for Insurance purposes, nevertheless, Mr. J. P. Gilmour, Mr. T. Guthrie, Mr. J. R. Hill, and Mr. Shiach Kitchen came into the Crown Room after they had had an interview with Mr. Charles Roberts, M.P., Chairman of the Insurance Commission. The toast of "The King" concluded the luncheon, and all present went downstairs to the Throne Room, where

The Conference

was held. Mr. Edmund White, B.Sc., F.I.C., President of the Society, again presided, and he was supported by the Vice-President, Treasurer, several members of Council and of the local Executive, while the Secretary and Registrar, Parliamentary Secretary, and other principal officers of the Society were either on the platform or in the room facilitating business. The Conference began at 2.15 and ended at 7 o'clock, without a break, and met again on Thursday at 10 A.M., so that readers will understand that this account is not a full report; indeed, our sole object is to tell what was done, rather than to expound the manner and method by which it was accomplished.

Mr. White has the gift of conveying much in a few sentences, and his introductory remarks were just so, for he gave delegates the assurance that he was there to see that everyone had a chance to say what they had come to say, and he would see that they had a fair hearing and fair-play. Standing orders were adopted, and

THE REPORT OF THE EXECUTIVE COMMITTEE

was taken paragraph by paragraph. The report was a record of what has been done since January 21, 1914, when the Committee was constituted. In succession Constitution and Duties, Territorial Representation, Pharmaceutical Committees, and Organisation were dealt with in four paragraphs, Insurance Accounts had nine, The War and the Price of Drugs three, Administration of Dependents' Scheme two, The Prices of Proprietary Articles three, Conferences with the British Medical Association two, and the twenty-fourth paragraph was about the postponement of the Conference from January to the present time. The delegates had the chance of speaking on each of the subjects, but little was said, and there was no dissentient voice to the adoption of the report. It was good.

The Federation scheme was next mentioned, on a motion by the President to make it possible for a Secretary of a local Pharmaceutical Committee to be a delegate to the Conference; and Mr. White accepted the qualification "if a pharmacist" for such Secretary. So altered, the motion was agreed to.

An hour had by this time elapsed, and

THE REPORT OF THE DEPARTMENTAL COMMITTEE

now faced the Conference, and the President was down to make a statement as to the views of the Executive. He saved time by asking Mr. Woolcock to tell the Conference something about the Departmental Committee's Report, which he did—a masterly effort that cleared the ground of many things which the delegates were quick to realise were trivialities rather than burning questions. The agenda contained thirteen resolutions about Insurance matters, and seven of these were now discussed along with amendments, three and a half hours being devoted to this. Five of the resolutions had been formulated by the Executive Com-

mittee, which had met the night before. We print the resolutions in darker type, and indicate by remarks where changes were made:

"That this Conference is of opinion that any Tariff to be accepted by pharmacists must provide adequate remuneration for the professional skill required in dispensing Insurance prescriptions, and must ensure prompt and regular payment of pharmacists' accounts in full."

London had two amendments to this: one was with drawn, and another, adding "upon definite dates," was defeated after exhaustive debate of about half an hour. The second resolution was:

"That the system of discounting, leading in many cases to inadequate payment, must be abolished."

It did not take long to agree with that. The next was:

"That the Report of the Departmental Committee, in so far as it provides for the abolition of discounting, be adopted."

St. Helens wanted "a National Tariff" to be appropriately introduced here, and the question of Scotland came in, but was satisfactorily disposed of by making the latter part read "provides for a uniform Tariff for England and Wales, and for the abolition of discounting." At this point a notable personage on the platform whispered, "Aren't they doing well; I'm proud of them." He referred to the fine way that the delegates were tackling the business. The fourth resolution was:

"That the principle of charging drugs at cost price be adopted, provided adequate remuneration can be obtained by means of dispensing-fees."

It took forty-two minutes to dispose of this. The only amendment to it was shelved, for the delegates preferred to talk "at large"; and well debated the subject was. Some of the remarks were (we have not a word for it); but the debate revealed a surprising amount of agreement with the novel principle. Then came the fifth of the Executive's resolutions, which was backed by nine Associations. It was as follows, and with amendments occupied all the rest of the sitting:

"That this Conference considers the proposed dispensing-fees to be inadequate, particularly that portion allocated to the payment of establishment charges, and declines to recommend their acceptance unless the Commissioners can satisfy a Committee to be appointed by this Conference that they are adequate."

An amendment by Flintshire for rejection of the fees was not seconded, and one of dissent by West Sussex was also to be withdrawn, but was allowed to remain while four amendments of it were considered. The first was to increase the mixture-fees by 1d., the second was for a 2d. increase, and the third for 1.5d. per prescription—this was lost, and the others withdrawn as being likely to tie the hands of the Committee. The following Glamorgan amendment induced a lot of talk:

"Attention should be called to the price of dressings, the only profit on which will be the establishment-fee."

This was added to the resolution. Mr. Woolcock explained why the Departmental Committee fixed on 0.8d. only as the "profit," and there seemed to be general acceptance of his explanation, but it was felt that it would do no harm to add the statement; on the other hand, a Stoke-on-Trent amendment to add "a reasonable trade profit to the cost of dressings" was not viewed in that light. It was also agreed "that bottles should be included in the monthly Supplementary Tariff," as suggested by Dorset. Then came a warm discussion on stock mixtures, which Hampshire wanted abolished, and very diverse views were ultimately emulsified in Mr. Glyn-Jones's suggestion that the Conference considers the practice of using stock mixtures, on the ground that they lead to ineffective treatment."

Stoke-on-Trent wanted a late fee for urgent prescriptions. This brought up again what had been repeatedly talked about—viz., that hitherto and now there are local arrangements, which will be scrapped by a National Tariff, and among things that will go are extra fees agreed to by local Committees in various places. The vote of the meeting showed that they must go. Finally it was agreed that the Executive Committee should appoint the members of the deputation to interview Mr. Charles Roberts at 10 A.M. on Thursday.

The Conference was resumed on Thursday morning shortly after ten o'clock, the Vice-President taking the chair, he being supported by several Councillors—viz., Mr. J. P. Gilmour, Mr. Moreton Parry, Mr. John Keall, and Mr. Rymer Young. Mr. Glyn-Jones sat beside the Vice-President. The members of the Scottish deputation were on the platform, but all the members of the Executive Committee, except Mr. W. B. Trick, were absent on the

interview with Mr. C. Roberts. The morning was devoted to consideration of a series of resolutions on

PROPRIETARY ARTICLES,

which were submitted chiefly by the London County Association, and amendments to them from other Associations. As these were discussed with much gusto by members, embarrassment was felt by those who realised that principles were applauded or defeated in respect to matters which hitherto have been regarded as outside the province of the Pharmaceutical Society, whose weight was thus given to the resolutions arrived at. The first was:

"That the Conference advocates the abolition in all pharmacies of the practice of opening stamped boxes of proprietary pills and retailing them in small quantities."

South Shields wanted to raise the licence-duty to 5*l*. a year, but this was lost on a vote. Five Associations wished to replace "boxes of proprietary pills" in the resolution by "packages of dutiable" articles; this was agreed to, as was also an amendment to add to the above "and that the Excise authorities be approached to take steps to prevent the practice," which was a milder instruction than asking the authorities to make the practice illegal. Finally it was agreed, by striking out the words "in all pharmacies," not to confine the suggested changes to pharmacists, or rather to those who carry on pharmacies.

Prices and profits were then entered on, the first resolution being:

"That a minimum profit of 25 per cent. on the selling price of all patent medicines, perfumes, and toilet-soaps should be provided."

The word "patent" in this was changed to "proprietary"; it was also altered by putting "and 20 per cent. on all toilet requisites and perfumes" after "medicines" and in place of "perfumes and toilet-soaps," and it was also agreed that the profit should be obtained in respect to any quantities purchased. The next resolution gave the Conference the opportunity of changing its mind about profit; it was:

"That a minimum profit of 20 per cent. on the selling price of all infant foods should be provided."

Cardiff wanted 15 per cent. only. Mr. Leo Joseph was at Buckingham Gate on a matter of high finance, but in his absence the Conference agreed to take 15 instead of 20; also to leave "infant" out of the resolution, and to add "in any quantity"—not infants, but foods purchased. There was another amendment to the resolution to the effect "that makers of infants' foods should be required to declare the constituents or composition of food upon each tin" or package. The Chairman said this must be put as a distinct motion, which was done by Mr. Charles Goode on behalf of Essex, but, after a warning to the meeting of the dangers involved, the motion was defeated by vote.

"That the Conference advocates the absolute refusal to stock or sell any proprietary article advertised to the public by means of a prescription or of which the retail price is unstated."

The meeting discussed this for a long time and from many points of view, including even the moral; it was interesting, sometimes laughable, often indiscreet. Finally, Mr. Glyn-Jones helped it out by formulating the following resolution, which was passed:

"That this Conference places on record its condemnation of the advertising of proprietary articles to the public otherwise than as proprietary articles and by means of a prescription."

The meeting gladly accepted this, then went on to an even more thorny subject—viz., that the three resolutions immediately preceding the last would be inoperative if company-pharmacies would not co-operate. It took some time to convince members that they were insufficiently informed on the subject, but they ultimately realised that companies are among the best friends of price-protection, and that co-ops. are the competitors they should keep their eyes upon. So Hampshire's motion was withdrawn. Flintshire wanted the Conference to use every endeavour to induce makers of proprietary medicines, foods, etc., to put them on the P.A.T.A. list, and if they did not, Bradford asked the Conference to adopt the "policy of the boycott." Again a lot said until Mr. Glyn-Jones gave the meeting the benefit of his twenty years' experience, with the result that resolution and amendment were withdrawn, as also was the London Association's motion in regard to Pears' soap.

ORGANISATION

was next on the agenda, and of the five motions one was held until the President came back. It was agreed that the Conference should meet at least once a year, but a

motion to introduce the card system of voting was lost by a big majority. York moved:

"That the Council of the Pharmaceutical Society would be more properly constituted if elected on a system of territorial representation."

After discussion, this was put to the vote, and the Chairman declared it carried; but this was challenged, and on a recount the "Ayes" had it; so this goes forward to the Council (we presume) to consider and decide. St. Helens wanted voting by proxy to be the rule of the Conference, but no one from the town was there, and the motion dropped. Finally it was agreed, on the motion of Essex:

"That the Executive take into consideration the fact that none of the so-called 97 per-cent. cresylic acid now on the market conforms to the specifications of the B.P. and B.P.C., what is offered being without guarantee and merely a residue from which the most important constituent has been removed."

At this stage (1 P.M.) the meeting adjourned for luncheon, and as we went out the deputation returned from the interview with Mr. Roberts.

After luncheon, the first resolution taken was one from Plymouth regarding the inadequacy of the information obtained from Secretaries of Insurance Committees. Mr. Roper disclosed that there is difficulty in getting to know the payments made to medical institutes for drugs. Mr. Neathercoat (Chairman) suggested that the pharmacists' representative on the Insurance Committee should ask for any information he wants. It was agreed that the Executive should furnish to Secretaries of Pharmaceutical Committees information as to what documents they are entitled to under the Regulations.

Mr. Ridyard then introduced the question of defining "rural areas," which has been a great difficulty in many parts of the country. He suggested a new wording, and Mr. Neathercoat drew attention to the better wording of the Scottish Regulations. Mr. Ridyard's resolution passed with a slight modification. The President, who had arrived with Mr. Woolcock, then made a statement as to the result of the interview with the Commissioners. He said that in the three hours' discussion neither party convinced the other, but the Commissioners had accepted the principles embodied in Resolution 5. He then read a statement which had been drawn up and signed by Mr. Charles Roberts as follows:

I understand that the Association's Conference Delegates will recommend the acceptance of service under the new Tariff subject to the understanding that if before July 1 the Pharmaceutical Society produces evidence that satisfies the Government that the figure of 0.8*d*. does not in fact represent an adequate rate of establishment charge, that figure will be increased retrospectively from January 1 to such figure that represents a fair average.

Mr. Woolcock, taking the administrative point of view, said chemists must give every assistance possible in proving the question of establishment charges by placing their books at the service of the Society. This caused a good deal of discussion as to what information was wanted, and showed a disposition to furnish information to headquarters rather than to local Associations.

Another point raised was in regard to expenses of Pharmaceutical Committees, and Mr. Woolcock stated that, as there would be no checking to pay for, probably $\frac{1}{2}$ *d*. or $\frac{1}{4}$ *d*. from each insured person would suffice in future. Whether the expenses of delegates to that Conference is a legitimate charge on these funds was another point raised, the Sheffield delegate (Mr. Antcliffe) stating that his Committee pays them.

The President's statement was accepted by the meeting, and the delegates to the Commissioners were thanked for their services.

A few other resolutions remained to be cleared off, the most important being one from London urging the formation of a body that could deal with purely trade matters, seeing that the Local Associations Executive Committee has stated that it cannot do this. The President suggested that there is a way of conferring this power on the Executive Committee if that body is not required to refer those particular matters to the Council.

The voting papers for seven members of the Executive had been handed round, and at this point the result of the election was declared as follows: Messrs. J. W. Cussons, J. W. Deakin, C. E. A. Goode, A. H. Jenkin, L. Joseph, C. W. Ridyard, and Hugo Wolff.

The final matter before the Conference was a resolution regarding military service of pharmacists' assistants. The meeting, however, took the stand that national interests should come before those of the trade, and the resolution was withdrawn.

Votes of thanks concluded the Conference at five o'clock.

Trade Notes.

SALICYLIC-ACID SUPPLY.—See the advertisement of the Central Export Bureau in this number.

STEEDMAN'S SOOTHING-POWDERS.—The revised P.A.T.A. prices for this proprietary are given in an advertisement in this issue.

PARAFFIN WAX.—The Asiatic Petroleum Co., Ltd., St. Helen's Court, Great St. Helen's, London, E.C., has a speciality of high-grade wax on offer.

BEECHAM'S PILLS.—The increased medicine stamp-duty has necessitated a rearrangement of the prices of Beecham's pills and Beecham's cough-pills. The new prices are given in our advertising pages.

QUINPHOS.—This proprietary article, made by Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool, has advanced in price owing to the increase in medicine stamp-duty. An announcement of the changes is made in our advertising columns.

WRIGHT'S CALENDARS.—The advertisement in this issue of Wright, Layman & Umney, Ltd., Southwark, London, S.E., contains illustrations and particulars of the various calendars which are offered in connection with Wright's Coal-tar Soap. Chemists should not fail to get some of them.

JOHN TIMPSON & CO., LTD., 104 Golden Lane, London, E.C., writing in regard to the Prescription Problem (*C. & D. Supplement*, October 16, p. xxxii), suggest that "1/2 yd. of 1-in. z.o. plaster" refers to Johnson & Johnson's "Z.O." plaster, "Z.O." being a registered trade-mark.

WOODWARD'S GRIPE-WATER.—The prices of gripe-water have been rearranged with the Proprietary Articles Trade Association as follows: Minimum retail price, 1s. 1d. per bottle; wholesale prices, one-gross lots, 6s. 2s.; less than one gross, 11s. per dozen. A new showcard is offered with each order for one gross.

PRICE OF PROPRIETARIES.—Thomas Christy & Co., 4, 10, and 12 Old Swan Lane, Upper Thames Street, London, E.C., have issued a special list containing particulars of the alterations in the prices of the stamped proprietary articles necessitated by the increased medicine stamp-duty. A copy of the list will be supplied to any chemist who sends a postcard request.

DR. MACKENZIE'S SMELLING-BOTTLE.—We are advised that, to conform with the new patent medicine duty, and to allow for increased all-round costs to both manufacturers and retailers, the minimum P.A.T.A. retail price will now be 1s. 3d. instead of 1s. The new price to retailers will be 11s. 6d. per doz. instead of 9s. 6d. Chemists will note that this means 1d. extra profit to retailers per bottle.

THE VENO DRUG CO., LTD., Veno Buildings, Chester Road, Manchester, give in an advertisement in this issue the revised prices of Dr. Cassell's tablets, Dr. Cassell's Instant Relief, Veno's Lightning Cough-cure, Seaweed-tonic, Nasal Tablets, Lightning Fluid and Ointment. Particulars are also given of the terms upon which window-displays are arranged. The prices of these proprietaries in Ireland remain as before.

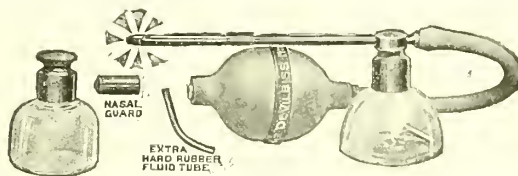
PILM EMULSION.—William Browning & Co., manufacturing chemists, 4 Lambeth Palace Road, London, S.E., have taken over the manufacture and supply of Pilim Emulsion hitherto prepared by the Strand Chemical Co. The minimum retail price has been fixed at 3s. and protected under the Proprietary Articles Trade Association's scheme. Yohmura capsules, which were also introduced by the Strand Chemical Co., are now obtainable from Messrs. Browning. To meet the increased medicine stamp-duties the price of scopolin carminative has been raised to 1s. 3d., this being the minimum protected price. The wholesale price is 10s. 6d. per doz.

"WARMTH AT WILL" is the title of a new booklet issued by John Wright & Co., Birmingham, and 19 and 21 Queen Victoria Street, London, E.C. It refers to the St. Andrew gas-radiators, and gives full particulars of the varieties, sizes, and prices of these useful heating-apparatus. The notes on the choice of radiators are helpful in forming an opinion as to the most suitable form of radiator for particular purposes. We note, for instance, that, from the point of view of efficiency, it is preferable to choose plain tall, double-tube radiators, and to have them enamelled black or a very dark colour. The booklet can be had on application.

WINTER LINES.—Cuxson, Gerrard & Co., Ltd., Oldbury, Birmingham, are manufacturers of "Sanoid" boracic socks, which are strongly and well made of loofah, one side being lined and the other made of lint containing 40 per cent. of boracic powder. The socks are supplied in various sizes, and a selling showcard is provided by the manufac-

turers. The retail price is 6d. per pair. Another seasonable line manufactured by the company is the "Sanoid" hot-water bottle cover. The wool lining of this cover retains and economises the heat, and its softness is a comfort to the user. There are eight sizes, from 6 in. by 8 in. to 8 in. by 14 in., the prices varying from 4s. 6d. to 7s. 6d. per dozen. The covers are supplied in three colours—pink, red, and blue.

DEVILBISS ATOMIZERS.—We have this week had an opportunity of inspecting samples of some of the atomizers made by the Devilbiss Manufacturing Co., 71 Newman Street, Oxford Street, London, W. The No. 16 "prescription"



atomizer is a well-made instrument, and as it is made on the vacuum principle, it is adapted for use in any vessel, and with either oil or water. The form of this atomizer is shown in the illustration. The spray-tube is made of hard metal and well plated, the design being such that the tube cannot become stopped up. The nozzle is movable, so that the spray can be directed up or down as required. The price of this spray is 41s. 2d. per doz. The perfume sprays are of similar construction, but the bottles and spray bulbs are more ornamental. The wholesale prices vary from 24s. 8d. to 329s. 4d. per doz. The company inform us that they guarantee for all time the sprays they send out; that is to say, the sprays will at any time be repaired free of cost or exchanged if any defect in the manufacture should develop.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

CHEMISTS' ACCOUNTS.

As announced in last week's issue of the *C. & D.*, Mr. Dixon on October 14 asked Mr. Charles Roberts, M.P., a question about the payment of chemists' accounts, and Mr. Roberts referred him to his reply last July to identical questions by Mr. Hancock, the member for Mid-Derbyshire (*C. & D.*, July 31, p. 149).

THE INSURANCE COMMISSIONERS.

There is authority for stating, in view of many rumours which are current at the moment, that the Departmental Committee on Retrenchment in the Public Service, of which the Chancellor of the Exchequer is the Chairman, has not as yet considered any aspect of the work of the Insurance Commissioners of England or Scotland.

CO-OPERATIVE SOCIETIES AND INCOME-TAX.

The Chancellor of the Exchequer informed Mr. William Field, M.P., in the House of Commons on Tuesday, October 19, that he does not propose any alteration in the income-tax as regards co-operative societies. The Army and Navy and Civil Service Stores are taxed in precisely the same way as other businesses. Co-operative societies are not exempt from stamp-duties.

HUMOGEN AND FOOD-PRODUCTION.

In the House of Commons on October 14, Mr. Joseph King, M.P., was informed by Mr. Acland, Parliamentary Secretary to the Board of Agriculture, that State grants have been made in respect of the scientific side of Professor Bottomley's work on "Humogen," the bacterial fertiliser which he has introduced, and practical experiments with it for horticultural and agricultural purposes are being carried on at various institutions, but no results have been obtained which demonstrate its utility for agricultural purposes on a field scale and on a commercial basis. [Sir Malcolm Morris presided at a meeting in King's College, London, on October 18, at which Professor Bottomley delivered a concluding lecture on his fertilised peat, or humogen. Referring to Mr. Acland's statement as to experiments on a field scale and on a commercial basis, the professor said that experiments had been made on a farm which showed that one ton of bacterised peat had produced 41 per cent. more potatoes, 26 per cent. more turnips, 43 per cent. more beet, 46 per cent. more onions, and 28 per cent. more carrots than 80 tons of farm dung from the same soil. He also told how a professor from the German Agricultural Department had tried to get the secret from him in July

of last year, and that he had received an offer for his rights from a proposed company, but he had refused the suggested 1,000*l.* a year and 33,000*l.* in shares. *EDITOR C. & D.*

ADDITIONAL MEDICINE-DUTIES.

In the House of Commons on Tuesday, October 19, the Committee stage of the Finance (No. 3) Bill was entered upon, and when Clause 11, dealing with increased medicine-duties (see *C. & D.*, October 16, p. 46), was reached Mr. Glyn-Jones made the following speech:

This is the clause which imposes the additional duties on medicines. The present duties are raised according to a scale of values, and the Amendment which I had put upon the Paper was one which sought to modify the existing scale of values. I do not propose to move it, because I realise it is a technical subject and one which, if the case is to be made good in the Committee, would mean a great deal of detail. I do not think at this time I should be justified in taking up the time of the Committee with such a matter, especially because if I made a case in the Committee I should have to convince the Chancellor of the Exchequer. I gather that the Chancellor of the Exchequer at present is not convinced, but I think that may be because he has not had, as I have, an opportunity of hearing what those who propose these modifications have to say in support of them. I believe he is willing, without making any promise at all that he is prepared to accept these proposals or any modifications of them, to see those who make the proposals and hear what they have to say in support of them between now and the Report stage. I feel that is by far the most convenient way, and I am quite sure the course that I have taken will not at all prejudice the consideration by the Chancellor of the Exchequer of the arguments which are to be put forward by them in support of these proposals. If the Chancellor of the Exchequer is not to be convinced, I am quite certain that those who put them forward will not wish to carry them any further. They believe that if the Chancellor of the Exchequer gives that which I understand he is prepared to give—namely, consideration between now and the Report stage—they will convert him to this proposal or some modification of it.

Mr. Lough next spoke on behalf of retailers who might have in stock medicines stamped as before October 20, particularly objecting to them being subjected to the 20*l.* penalty. He wished to avoid this by dropping Sub-section (2), but Mr. Glyn-Jones pointed out that Mr. Lough was wrong in his deductions. Mr. Rawlinson followed, remarking, "I understand that plasters and small things which at present pay 1*½d.* are to be increased to 3*d.* Will not the first effect of that be that the sale will be less, and, secondly, that these people will avoid paying any duty altogether by doing what is not difficult to imagine them doing—namely, making the article no longer come under the Act. Although the article may be well known, it may be altered from 'Somebody's plaster' to a 'plaster manufactured by So-and-so.'" He was answered by Mr. McKenna that the Bill would not be passed on October 20. Then Mr. R. McNeill wanted an assurance that the Bill merely increased an existing tax and brought in nothing new. Mr. Montagu gave him that, and replied to his hon. friend (Mr. Glyn-Jones) and other speakers, with the result that the clause was put and agreed to.

We understand that Mr. Glyn-Jones will, between now and the Report stage of the Bill, have a consultation with the authorities regarding his amendment (*C. & D.*, October 16, p. 46).

Trade-Marks.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for 5*s.*) and lodged with the Registrar of Trade-Marks, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C. The prescribed time is one month from the date of the Journal in which the application has appeared; but the period may be enlarged by the Registrar, if he thinks fit, and upon such terms as he may direct. Formal opposition should not be lodged until after notice has been given by letter to the applicant for registration, so as to afford him an opportunity of withdrawing his mark before the expense of preparing the notice of opposition is incurred. Failing such notice to the applicant, an opponent may not obtain an order for costs.

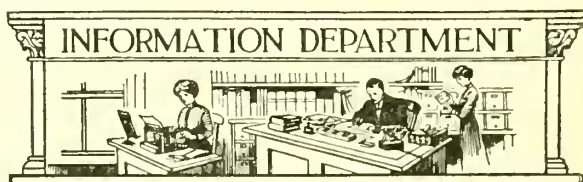
The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1915, p. 435.

(From the "Trade-marks Journal," October 6, 1915.)
 "MAYPOLE"; for food-substances (42). By Maypole Dairy Co., Ltd., Southall, Middlesex. 369,193. (Associated.)
 "CHOCABOONS"; for all goods (42). By Williams's, Ltd., Waterworks Street, Bootle. 369,247.
 "PERMETOL"; for soap for cleansing fibres, etc. (47). By R. W. Greff & Co., Thames House, Queen Street Place, E.C. 367,851.

"FERN" with fern-fronds, for goods (47); "HIPPO" and head of hippopotamus, for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soap-works, Manchester. 369,125/135. (Associated.)
 "PRINCESS"; for goods (47). By Wilkie & Soames, Ltd., Greenwich, S.E. 369,197.
 "JOPHIN"; for hair-preparations (48). By Mac & Co., 164 Moorland Road, Burslem. 368,253.
 "LYSOVAS"; for perfumery, etc. (48). By Lysol, Ltd., 9-10, St. Mary-at-Hill, E.C. 368,510.
 Shield bearing words "CHARMETTE" and "THE CREST OF QUALITY," surmounted by figure holding ball with letters "H. H." ("The Crest of Quality" disclaimed); for powder-papers (48). By Hughes, Hill & Co., 19 Ludgate Hill, E.C. 368,821.
 "REXINE"; for waterproof sheeting, etc. (50). By British Leather Cloth Manufacturing Co., Ltd., Cartwright Street, Newton, Hyde, near Manchester. 365,515. (Associated.)
 "CROMTOZ"; for polishes (50). By W. Crompton, 162 Bolton Road, Bury. 369,066.
 "LECHELIT"; for goods made of a celluloid-like material (50). By Wex & Co., Ltd., Regent House, Regent Street, W. 369,084.

(From the "Trade-marks Journal," October 13, 1915.)

"MISKAL" under circular device of man on horseback fighting two rats, and letters "J. C. & Co."; for vermin destroyers and sanitary preparations (2) By J. Chapman & Co., 1 Dewberry Street, Poplar, E. 369,096.
 Design of Roman lamp with monogram "A. W."; for medicinal chemicals (3), food substances (42), and perfumery, etc. (48). By A. Wander, Ltd., 45 Cowcross Street, E.C. 368,602/3/4.
 "NOBBS' Asthma-cure" on label device ("Nobbs'" disclaimed); for a medicine (3). By J. D. Humphreys & Son, 64 Crutched Friars, E.C. 366,232. (Associated.)
 "ARAVANU"; for an external medicine (3). By F. R. Evans, 17 Grosvenor Square, Dublin. 368,717.
 "NEWBINE"; for pills (3). By The Vegeto Co., Trinity Road, West Bromwich. 368,889.
 "EXEMOL"; for a medicine (3). By J. K. Matterson, 12 Arcade, Bournemouth. 369,381.
 Device of half-globe with letters "E. R. Y." and lion and double eagle on top ("E. R. Y." disclaimed); for food substances (42). By W. C. Smith, "Doo Castle," Wilderton Road, Branksome Park, Bournemouth. 364,273.
 "VIKING" with picture of same for goods (47) and "LORETA"; for soap (48). By G. W. Goodwin & Son, Manchester. 365,763/767.



Postal Address:

C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London E.C.

Telegraphic Address: "CHEMICUS, CANNON, LONDON" (two words).

Telephone Number: 3617 CENTRAL (three lines).

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated. Please address us as above:

- | | |
|--|--|
| 2/70. "Silvol," supposed to be a colloidal silver. | 6/35. "Urodone." |
| 2/69. Everard's castor oil. | 4/54. "Feverol," a veterinary preparation. |
| 3/59. Ointum dyes. | 7/75. Dr. Woodward's antiseptic vaccination-pad. |
| 3/22. "Cusegon." | 6/42. Plombière salts for rectal douches, "Harrogate formula." |
| 5/64. Machine to fill 2-oz. and 5-oz. bottles with a light powder. | 6/40. Solution of American cactus for hypodermic use. |
| 6/35. "Primuline." | |
| 6/47. Williams' "Eczematine" powders for dogs. | |

MEDICINE STAMP ACTS.—At Old Street Court, London, on October 21, Emanuel Levy, 20 Church Street, Bethnal Green, was fined 5*s.* on each of four summonses under the Medicine Stamp Acts, for selling Holland's Universal Embrocation unstamped and without a licence.

Observations and Reflections.

By Xrayser II.

The Conference

will have met, and its decision will probably be known, before this note appears. Whatever that decision may be, it will not satisfy everybody; indeed, I suspect that a good many men could not, if put to it, say definitely what would satisfy them. Certainly they who have made up their minds beforehand that the Conference will not do it are likely to prove true prophets so far as they are themselves concerned. The new proposals have been discussed in some quarters as if it had been expected that in one way or other they would increase our remuneration beyond what was intended under the old scheme, but this is an entire mistake. They will not add a penny to the fund available for Medical Benefit, and they are not intended to encroach on the sum allocated to the doctors. What they are meant to do is to relieve us of the liability of being discounted, and of a great deal of trouble and worry connected therewith, and for this relief we are frankly warned that we must pay. There is a general consent (1) that the discounting is intolerable, and (2) that apart from that the old agreement would have been acceptable enough. We must not expect—for we certainly shall not get—anything better. The Conference consists for the most part of practical and competent men of business, and they are fully aware of these facts. Their decision as to the price we may reasonably agree to pay for the relief offered us may or may not be acceptable, and it is not necessarily final, but the fact that a price will have to be paid must be faced. This is the only basis on which intelligent criticism of the decision can be offered. The doctors, meanwhile, are making up their minds to refuse the new terms, and as the issue really lies with them we are probably disquieting ourselves in vain.

The Result of the Inquiry at Hull

will tend to establish rather than to shake public confidence in the work of pharmacists under the Insurance Act. The seven complaints covered a period of two years, and they were pressed with an animus, not to say a virulence, which called forth a strong rebuke from the Commissioners; yet five of them were dismissed as trivial, one was adjudged to be due to nothing worse than an error of judgment, and no evidence whatever was offered in support of the remaining one, which, had it been established, would have been of more serious import than all the rest put together. This unsupported charge, again, was severely condemned by the Commissioners. Not Taylor's Drug Co. alone, but pharmacists as a body, may be congratulated on such an inquiry with such a result. One error of judgment, and nothing more serious, in two years' work in four different shops, selected, apparently, as the likeliest to prove a general charge! The record is an honourable one, especially in view of the thorough and careful character of the Commissioners' examination of the charges. The report warns us not to expect leniency of judgment where there is real occasion for complaint, and upholds a standard of conduct commensurate with "the skilled, responsible, and honourable services" required of us. Above all, it is a reminder that constant, unremitting carefulness is necessary even in the minutest details of our work, and

that in no case ought a doubtful prescription to be dispensed without reference to the prescriber. Saddle the doctor with his own blunders.

The "Moral"

of Mr. P. Leuthard Thornton's article on British chemical industry scarcely needs drawing: it shouts at us from every line. It is incontestable that, whatever may be said of British science, British industry has been lacking both in enterprise and in method; we have been content to sow and let others reap, and from Mr. Thornton's point of view our science has in consequence failed of its reward. There is, however, another point of view. I quoted some months since a toast once proposed by a great scientist to a company of his fellows: "Science; and may it never do a ha'porth of good to anybody!" This was an extreme way of putting a great truth—the truth that Nature reveals her secrets most willingly to those who seek them disinterestedly. To pursue truth for its own sake is the surest way to find it, and all the greatest discoveries have been made by men who sought in this spirit. M. Paul Appell said recently:

"Research, if, narrowly specialised, it seeks only practical efficiency, leads to a ruthless material civilisation, a sort of scientific barbarism."

He cited Germany as an example. Mr. Thornton was speaking, not of science, but of the utilisation of science, and he would admit that the fault of our backwardness in chemical industry lies not so much with our chemists as with our masters of industry. The world has been said to owe its advance equally to its great and its strong men; the former are the discoverers, the latter the exploiters of discovery. We have excelled in the one, but not in the other. We may be proud of the fact—it is the nobler ambition of the two; but this ought we to have done, and not to have left the other undone.

"Incurring a Dead Loss"

and waiting patiently for practical results" is not the British way. In some things we can take long views, content to wait for the ripening of the fruit, but there is no use in anyone denying that the launching-out in capital expenditure in risky adventures with only a very problematical return is not our way of doing business. Napoleon called us a nation of shopkeepers, and if the remark was true a century ago it is no less true now, and there is only one way, in my opinion, by which the British nature can be radically changed. Why is it that we are so stolid and unimaginative? Simply because success has made us lethargic and ultra-confident in our powers. For more than three centuries we have not once known what failure meant, for the loss of our American colonies was the triumph of our own sons and daughters, and in no sense a racial failure. Our enterprises have succeeded all over the world. Money has rolled in upon us till the national income exceeds the dreams of avarice.

The Stoppage of Coca-cultivation

is a sign of the times, and the action of the Ceylon Government will be regarded with great satisfaction by all social reformers. There seems to be little doubt that the stringent legislation against the sale of cocaine in some parts of the world has led to the cultivation of coca-leaves being the unprofitable undertaking which your paragraph shows it to be. From what I am told by American friends, we in this country have no conception of the ravages produced by the cocaine-habit, which is even worse than the morphine-mania sometimes seen with us. I do not think we are likely to come to that pass when it will be regarded as a criminal act to send morphine or cocaine by post, as it is now in the United States, for my own experience is that the evil is decreasing rather than increasing, one reason being that our national intoxicant in this country is so easily obtained that the great majority of people who crave for excitement and stimulants are likely to continue the alcohol-habit.

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 "Sanitas Fumigators" (Bronchitis Kettles) and Inhalers.
 "Bactox," "Okol," "Creocide," "Soldis," "Pinos."
 Kingzett's Patent Sulphur Fumigating Candles.
 "Sulphugators" and "Formic Sulphugators."
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 Kingzett's Patent Drain Testers.
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 Carbolic Fluids, Powders and Soaps.

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LIQUORS

Editorial Articles.

A Week of Crises.

As we write the Local Associations Conference is still in session, so that the final decision in regard to next year's contracts for Insurance dispensing in England and Wales is reported on p. 40. The decision in Scotland is not final, for, although the meeting of chemists in Edinburgh on October 15 was emphatic, room for negotiation was left, and the responsible Minister (Mr. Charles

Roberts) invited representatives to come to London to discuss the matter with him. This they did on Wednesday morning and evening, with, we understand, a favourable result on the second asking, in so far as he showed himself to be open to conviction, and promised to look carefully into the figures which the deputation submitted. Something the same was the result of Thursday's deputation from the Conference to Mr. Roberts. This was headed by the President of the Pharmaceutical Society, and the mandate of the deputation was contained in the first five resolutions passed by the Conference on Wednesday (this issue, p. 39), supplemented by an instruction that dispensing chemists in England and Wales will sign on for six months in order that it may be determined by careful inquiry if 0.8d. per prescription is a fair establishment charge. Our readers will see for themselves from the statement on p. 40 that neither the Executive nor the Conference is prepared to advise going off the panel. We had the privilege of being present at the Conference. Sometimes the atmosphere of a meeting is more informative than what is spoken, and in this case there was a clear indication that the delegates were in favour of a trial of the new Tariff on the conditions laid down by the Departmental Committee, subject to the consideration of the establishment charge. It is understood that medical men in England and Wales are willing to take over the dispensing, and are opposed to the Departmental Committee's recommendations so far as they concern payment of chemists, but the Conference did not consider this on Wednesday as a factor in the situation.

Chloroform and Ether.

WE mentioned last week, p. 46, that the proposed discontinuance of the Customs duties on chloral hydrate, chloroform, and ethers, as embodied in Clause 13 of the Finance Bill, was apparently a forerunner to the larger production of these articles in this country. We had in mind the ethyl esters, the production of which from duty-free alcohol might conceivably be added to British chemical industry. A condition precedent to an internal revenue change of this nature, especially at this time, when the Government is faced with a small but strong free-trade minority, is removal of import-duties, and that is what was proposed in Clause 13. It was not, however, realised that home manufacturers of chloroform, ethyl chloride, and sulphuric ether would be knocked out of the market in the event of the proposal being enacted. Steps were therefore taken at once by Mr. Donald Mackenzie (T. & H. Smith, Ltd.) to bring the manufacturers together, and a meeting was held in his company's London office on Monday, at which most of the manufacturers were represented, Mr. D. Lloyd Howard presiding. A line of action was agreed to, which was simply to ask the Government to withdraw Clause 13. Mr. Thomas Tyrer saw the Customs authorities the same day, explained the whole position, and obtained assurance that they are not at all hostile to chloroform and ether manufacturers, but the contrary. Dr. J. L. Ewing (Duncan, Flockhart & Co.) spent the greater part of Tuesday in the lobby of the House of Commons interviewing members and Ministers. In the course of the day we learnt that it is not the intention of the Government to proceed with the clause, having regard to the disabilities it might place upon these manufacturers, especially at the end of the war when our markets are again open to German manufacturers. The latter would then be in a position to undersell British manufacturers

because their raw material (ethyl alcohol) is always approximately 30 per cent. cheaper than the British owing to our fiscal conditions increasing the cost of production here. When the clause was reached in Committee of the House of Commons shortly after midnight of Wednesday's sitting, it was passed over; that is to say, no mention was made of it, nor is it referred to in the "Proceedings." The chloroform and ether manufacturers had an interview with Mr. Montagu, Financial Secretary to the Treasury, at eleven o'clock on Thursday forenoon, to discuss the whole matter. It was then stated that the clause has been shelved for two or three weeks, and Mr. Montagu promised that he would let the deputation know by Tuesday or Wednesday what the Government will do in the matter. We have been informed that the Insurance Commissioners are interested in the subject, but we have difficulty in believing that for the sake of the few pounds a year that might be saved on chloroform and ether they (or any other Government Department) would be parties to the wrecking of an important though comparatively small British industry.

September Overseas Trade.

We dealt briefly last week with the Board of Trade Returns, and we now find that of the total increase in imports last month ten millions sterling was under the heading of food, drink, and tobacco, 5,500,000*l.* under raw materials, and 9,500,000*l.* under manufactured goods. Meat, sugar, and tea account for the large increases in foodstuffs, but the rise in prices has played a large part in swelling the totals. In raw materials there is a decline of 416,256*l.* in oil-seeds, oils, fats, gums, etc., largely due to a decline in linseed, cotton and rape seeds, tallow, and petroleum. Of nuts and kernels for expressing oils our imports continue to increase; those for the nine months ended September 1915 being 347,565 tons, against 92,746 tons for the corresponding period of 1914. Among manufactured goods the largest increases are in iron and steel—over a million each. Chemicals and the like are 1,070,000*l.* more at 1,730,069*l.*, this increase being of an all-round character, but especially applying to miscellaneous chemicals and unenumerated drugs, which were up by 413,663*l.* and 121,800*l.* compared with the corresponding period of 1914. The figures indicate that we are receiving larger general supplies of tanning-substances, dyestuffs (with the exception of synthetic dyes), drugs, medicines, and industrial chemicals. So far this year we have imported 13,560,882*l.* worth of such materials, which is 4,352,262*l.* more than the corresponding figures of 1914. We have largely increased our imports of crude glycerin, saltpetre, commercial acetic acid, brimstone, quinine, etc. We give a selection of the items, the figures representing the nine months' imports ended September:

	1913	1914	1915
Acetic acid cwt.	54,139	56,110	81,014
Brimstone "	291,341	380,780	538,105
Glycerin, crude "	54,432	64,151	91,732
" distilled "	16,489	13,276	15,822
Saltpetre "	176,897	147,190	195,601
Undescribed chemicals	£1,240,025	1,242,527	2,537,548
Quinine oz.	1,811,478	1,345,945	3,315,200

In exports during September there was an advance of almost a million in coal, though the total was well below the level of 1913, while in manufactured articles the principal increases were in iron and steel, 780,000*l.*, "other metals and manufactures," 213,000*l.*, cotton textiles 1,263,000*l.*, woollen goods 971,000*l.*, and chemicals

509,000*l.*, the last being valued at 1,744,462*l.* for the month. Of oil-seeds, fats, and the like we shipped abroad last month 342,877*l.* worth, or 141,340*l.* more than the corresponding period of 1914, and for the nine months ended September 1915 the figures were:

	Cwts.
Grease, tallow, and animal fats	483,806
Coconut and palm oils	124,782
Seed-oils	72,419

The Netherlands so far this year have had 35,828 tons of seed-oils from us, compared with a mere 1,352 tons in 1914, the values respectively being 1,058,102*l.* and 35,399*l.* No doubt the Netherlands Oversea Trust has a watchful eye on these imports, as they only leave the United Kingdom under licence. We do not doubt the British exporters made a handsome profit. We notice that a further Proclamation has been issued dealing with exports to the Netherlands, under which free exports are now reduced to very narrow limits, which looks as if John Bull had given the handle another turn. Our chemical industries appear to be as active as ever; the increased values are partly due to the advance in market prices, but the quantities are more in many instances, some of the leading items being:

	September	1914	1915
Bleaching-powder cwt.	59,570	44,937	
Coal-products, not dyes £	36,847	155,417	
Copper sulphate tons	300	1,302	
Glycerin cwt.	1,336	16,468	
Medicines £	122,751	243,545	
Quinine oz.	83,298	214,649	
Ammon. muriate cwt.	10,840	6,918	
Painters' colours cwt.	139,144	150,638	
Potash compounds £	9,586	17,434	
Soda compounds cwt.	679,711	673,209	
Miscellaneous chemicals £	212,371	337,259	

The large exports of quinine and other medicines are a feature of the above figures, while the shipments of coal products, not dyes, were quadrupled compared with the corresponding period of 1914.

Wills.

MR. THOMAS TANNAR SUCKLING, chemist and druggist, Linton, Cambridge, who died on August 3, left estate valued at 1,944*l.* 1*s.* 9*d.* gross, with net personality 1,337*l.* 3*s.* Probate of his will has been granted to his widow, Mrs. L. E. Suckling.

MR. GEORGE BOX, artificial limb-maker, 146 Oxford Road, Chorlton-on-Medlock, who died on May 3, left estate valued at 3,357*l.* 9*s.* 9*d.* gross, with net personality 1,400*l.* 14*s.* 4*d.* Probate of his will has been granted to his widow, Mrs. E. Box, and his son, Mr. G. P. Box.

MR. WILLIAM FRASER, 47 Maxwell Drive, Pollokshields, Glasgow, managing director of the Pumpherton Oil Co., Ltd., the Tarbrax Oil Co., Ltd., etc., who died on June 14, left personal estate in the United Kingdom valued at 82,378*l.*, of which 65,777*l.* is Scottish estate.

MR. S. P. BOYD, D.L., Dromana, Lecson Park, Dublin, and of Boileau & Boyd, Ltd., left personal estate valued for probate purposes at 18,603*l.* He appointed his daughters, Miss Eileen Boyd and Mrs. Rosa McConnell, his executors, giving the former the guardianship of his infant children and 100*l.* in connection with expenses. He confirmed an agreement made on the occasion of the marriage of Mrs. McConnell, allowing her 2,000*l.*, and also left his daughters, Eileen and Gladys, 2,000*l.* each. He bequeathed 5,000*l.* to his son, Reginald, and directed that the residue of his estate be divided equally among his four children.

MR. JOHN PITMAN, chemist and druggist, 42 Redcliff Hill, Clifton, who died on July 19, left estate of the gross value of 17,983*l.* 1*s.* 9*d.*, of which 5,000*l.* 2*s.* 4*d.* is net personality. Probate of his will, dated February 22, 1907, has been granted to his sister, Miss E. Pitman, and Mr. J. E. Grace, of 24 Clare Street, Bristol, chartered accountant. The testator left his business upon trusts for his manager, C. H. E. Lowe, charged with the payment to the testator's sister, Miss Emma Pitman, of 100*l.* per annum, 15*s.* per week to his old servant, James Budd, and 1*l.* per week to Ann Haskins, and the residue of his estate he left upon trust for his said sister for life and, subject to her interest, he left various sums to servants.

Testing for Poisoned Water.

By John Parry, Kimberley,
Member of the Colonial Pharmacy Board and of the South
African Association of Analytical Chemists.

DURING September 1914, while the Union Government was occupied in dealing with the rebellion as well as preparing for the German South-West Africa campaign, various voluntary units were being formed in all the chief centres of the Union for service wherever they might be needed. In this particular centre—Kimberley—among other bodies an Engineering Corps was organised, under the charge of Captain Langley, one of the Government Inspectors of Mines. Owing to the closing-down of the De Beers Mines, many exceptionally skilled men were available for this corps, and readily responded to the call for their services. Other men, not connected with De Beers, with technical knowledge, also volunteered for the corps, among them Mr. G. C. King, an assistant of Heynes Mathew, Ltd. Ominous reports were already current that the Germans were poisoning wells at some of the small outposts which they deemed unsuitable to defend. As the supply of water on several of the lines of march was extremely precarious, such a method of impeding the progress of the Union Forces offered a tempting opportunity to the Germans to render unsafe all supplies of water they could manipulate. To prepare for this, Captain Langley requested Heynes Mathew, Ltd., to tabulate some tests which could easily be carried out on the field, as it would be necessary to examine every supply of water before the troops were permitted to drink it. The series described below was accordingly arranged, and they proved to be all that was necessary.

The number of poisons to be looked for may seem needlessly comprehensive, arsenic, in the form of sheep-dip, being obviously the one most likely to be employed, seeing its very wide application over the whole of South Africa. No tests for other sheep-dips or carbolic disinfectants were prepared, though these were largely used, as their presence in water would be easily recognised by other than chemical methods. The Sims-Woodhead method of sterilising water (*C. & D.*, September 26, 1914, p. 74) was found to be of the utmost importance, for many rumours existed that wells had been deliberately inoculated with specific pathogenic organisms. Bacteriological examination of the supplies was out of the question, as the processes are too elaborate and involve too much delay to be of service for troops on the march. As the chlorine process is so effective and rapid (water being rendered practically sterile in twenty minutes), it was recommended that all waters be treated by this method, whether suspicious or not. Mr. G. C. King was deputed by Captain Langley to undertake this special work when on active service, and he, after a fortnight's intermittent coaching in the laboratory, was able to issue a report in thirty minutes.

SIMPLE TESTS FOR RAPIDLY DETECTING CERTAIN POISONS IN DRINKING-WATER.

1. Cyanides.

Reagents required:

Ferrous sulphate in crystals (5-per-cent. solution made as required).

Ferric chloride in solution (dilute 1 in 10 as required).

Caustic potash in sticks (5-per-cent. solution made as required).

Hydrochloric acid, pure.

Starch solution for making iodide of starch.

Dilute sulphuric acid.

Procedure:

Take two test-tubes: in one place two teaspoonfuls of water known to be good; in the other the same quantity of suspected water. Into each pour a few drops of dilute sulphuric acid and then a few drops of the 5-per-cent. solution of the ferrous sulphate, freshly made, a few drops of the ferric-chloride solution, and then sufficient solution of caustic potash to cause a distinct precipitate. Note colour of the precipitate, and then add excess of strong hydrochloric acid. In the first test-tube the precipitate should dissolve completely, leaving a clear yellow solution. If the second tube has a deep-blue colour and a blue precipitate a dangerous quantity of cyanide is present. If there be no precipitate, and the solution is green, cyanide is present in a small amount, but it will be quite sufficient to condemn the

water. This test will detect 1 part of cyanide in 10,000 parts of water, or, roughly, $\frac{1}{10}$ grain in a pint. If this test fails to show cyanide the following one, carefully carried out, will reveal $\frac{1}{10}$ grain to a pint. Make a solution of iodide of starch by adding one drop of tincture of iodine to half a test-tube of water, then a drop or two of cold freshly made starch solution. From this make a slightly tinted blue solution; divide into two portions; to one add an equal quantity of the suspected water, and to both three or four drops of diluted sulphuric acid, and allow to stand ten minutes. If the blue tint remains in both tubes after that time the water is free from cyanide. If the colour be discharged from the sample under test, then the water is suspicious. As other substances discharge the blue colour besides hydrocyanic acid, it will be necessary, in order that this test may not be deceptive, to concentrate a pint of the suspicious water down to an ounce by boiling, adding at the start a few grains of caustic potash. The evaporation should be conducted in a perfectly clean vessel, preferably glass. The concentrated solution should then be tested by first method, when the appearance of a blue or green solution will confirm the presence of cyanide. Such a water must be condemned.

2. Poisonous Alkaloids: Strychnine, etc.

Reagents required:

Solution potassio-bismuth iodide (No. 1).

Solution of phospho-tungstic acid (No. 2).

Dilute hydrochloric acid.

Procedure:

Take four test-tubes. Nearly fill two of them with the suspected water, and the other two with water known to be good. Add to all four five or six drops of dilute hydrochloric acid. Then add five drops of No. 1 reagent to a sample of the suspected water, and five drops of No. 2 to the other. Treat the cheek samples in the same way. If No. 1 reagent produces only a lemon-yellow colour, and No. 2 reagent no effect at all, as will be the case in the good samples, then the water may be considered free from poisonous alkaloids. Should the first sample of suspected water show an orange-red cloudiness or precipitate, and the second sample a white cloudiness or precipitate, the water is unsafe, and is to be condemned.

3. Arsenic.

Materials and reagents required:

Strong hydrochloric acid.

Pure granulated zinc (arsenic-free).

White filter-paper saturated with solution of mercuric chloride, and dried (test-paper).

Procedure:

To a test-tube one-third filled with suspected water add a small piece of the zinc, then about a drachm of the strong hydrochloric acid, and cover the mouth of the tube at once with a piece of the test-paper. Conduct a blank test at the same time with water known to be free from arsenic to check the purity of the reagents. If arsenic be present an orange or yellow colour will be imparted to the test-paper, the depth of the colour and rapidity of its appearance depending on the quantity of arsenic present. If arsenic be present the water is unsafe. This test will reveal $\frac{1}{10}$ grain in a pint of water, or 1 part in 175,000 parts.

4. Mercury Test. (Corrosive sublimate or cyanide of mercury).

Materials, etc., required:

Pieces of copper foil, $\frac{1}{2}$ in. square, perfectly clean and bright.

Dilute hydrochloric acid.

Procedure:

Place two or three drops of the suspected water on a piece of copper foil; add one drop of dilute hydrochloric acid, and allow to remain at least ten minutes. If mercury be present in any dangerous quantity a brilliant white metallic deposit will form on the copper; friction after removal of the liquid renders this brighter. This test will reveal so minute a quantity of mercury as one-tenth grain in a pint of water, but the deposit will not be so brilliantly white; the drops will, however, become distinctly milky in less than five minutes.

Note.—Some silver salts also produce a white metallic deposit, but silver is hardly likely to be employed for poisoning-purposes. Arsenic also produces a stain on the copper, but it is not white, and Test No. 3 will establish whether this be present.

5. Copper Salts.

Reagents required:

1. Tablets of hæmatoxylin (one quarter of a tablet in $\frac{1}{2}$ oz. of water makes the reagent).

2. Crystals of ferrocyanide of potassium (5-per-cent. solution made as needed).

3. Dilute hydrochloric acid.

Procedure:

Take two test-tubes. Fill one two-thirds full with good water and the other with suspected water; to each add twenty drops of the freshly prepared hæmatoxylin solution, and allow to stand for fifteen minutes or longer. If both solutions remain a purplish brown, copper is absent. If the suspected water deepens in colour and gradually becomes a deep blue, copper is probably present. Iron salts give almost a similar reaction. To distinguish whether the colour be due to copper or iron, take another sample of suspected water, and add a few drops of dilute hydrochloric acid, and then five or ten drops of freshly prepared ferrocyanide-of-potassium solution. If a copious blue precipitate is produced, much iron is present. If the precipitate

be maroon coloured, no iron but much copper is present. If both copper and iron be present the maroon precipitate of copper will be obscured. In this case, insert the polished blade of a pocket-knife in the water after adding a few drops of the dilute hydrochloric acid: if copper be present a deposit will quickly form on the steel, readily recognised by the colour. If only minute quantities of copper or iron be present the solution will assume a clear blue-green colour with iron, while with copper it may be a reddish brown, or if very dilute may show no colour at all. If any doubt, concentrate some of the water to a very small bulk and apply the steel-blade test. Limit of above test is $\frac{1}{4}$ grain of copper salt to a pint.

Mr. King was a sapper in the "G" Company, Engineers' Corps, attached to the 2nd Battalion Kimberley Regiment in the South African Expeditionary Forces, and he started testing the water on arriving at Swakopmund on January 15. His report showed arsenic in large quantities to be present in the local wells. Captain F. Muller has since testified to the splendid services which Sapper King rendered to the Union Forces, and to the accuracy of his analytical reports.

Commissions.

By Business Chemist (17854).

THE word "commission" as we hear it spoken of to-day savours invariably of the Army or Navy, but in these lines commission-business is alone referred to. It will be agreed that, in order to develop a business in pharmacy, remuneration to the employees is of vital importance.

"Live and let live" must be the motto. It is usual in pharmacy, where commission is recognised, to pay on individual sales or, in some cases, on the annual or biennial profits. The object of my observations is to show which commission should be adopted by business-builders, and why. Firstly, I take the case of commission on individual articles. The temptation to push unduly is the first mark against this method. An assistant is asked for a certain article, but, having a near or far substitute, he invariably introduces it, in the hope of gaining a pecuniary personal advantage—this, be it said, not infrequently at the direct expense of the business-builder, which can readily be understood if an assistant *must* make his salary a reasonable one. Salesmanship is an art which all should cultivate, but the true salesman will never turn a customer away dissatisfied. A single good sale, no matter of what present value, will never make a profitable transaction unless the customer has been satisfied so that his or her patronage will become a constant factor. Secondly, where there are several assistants working for whatever individual commissions they can make on the articles sold, there is keen competition between them, and such customers as do not buy articles carrying that commission are apt to be hurriedly and unceremoniously attended to. Instead of harmony among the staff there invariably are petty jealousies and bickerings, besides such undesirable and unprofitable conditions as neglected stock, shortages, errors in ordering, neglected accounts and invoices, all of which result from the eagerness of the individual to make up his salary. As an alternative, the general pooling of commission may be advocated, and while this to some extent is better than individualism, it frequently results in imaginary unfairness to the good salesman. Now, as all members are necessary for a perfect body, so also are all kinds of assistants necessary for the true success of a business. A clever salesman loses half his value if he be unmindful or careless regarding stock. Failure to enter down shortages will mean the loss of another sale. A quick worker likewise drops in value when his rapidity is hastened by waste, such as inaccurate measuring and weighing, excessive paper, string, etc. Reverse these observations and we increase the net value of other men. A less clever salesman raises his value proportionately with the care bestowed on stock and his attention to enter in the order-book whatever shortages he sees. The slower worker likewise increases in value owing to his carefulness in avoiding waste, and so on. As in private life, so also is it in business, that our "wealth consists not in what we make, but in what we save." How then, it may be asked, can an employer make a just and equitable commission an incentive to the development of his business? There is only one other course open, and one which has proved itself to be superior in every sense, and it is to pay employees a good living salary, with a share in the annual or biennial profits. By this means one removes all obstacles to the building-up of a good business, secures equal attention to all customers, and at the same time encourages every member of the staff to increase his sales reasonably, besides securing harmony among the staff and better attention to the details of the business. Too often

in large concerns we see the junior members of the staff paid a meagre wage, while commission at a high figure is held out as a bait. In justice to the employee this should not be, and it is an unwise policy for the business and its proprietor. When assistants and all other employees realise that *their share* in the profits depends solely upon their punctuality, diligence, foresight, and economy, then 50 per cent. of the worry is rolled off the shoulders of the proprietor, thus enabling him to devote his time more thoroughly to the larger and more commercial concerns of his business. What we want to aim at in everyday work is a feeling of personal co-operation between employer and employee, and to remove the too prevalent idea that the staff are mere human machines.

Medical Gleanings.

Treatment of Onychia.

ONYCHIA, or ulceration of the matrix of a nail, is thus treated by Vos Hugo by ionic medication. The treatment consists of soaking the part for a couple of hours by means of a pad moistened with a 5-per-cent. solution of zinc sulphate. A thread of lint soaked in a 2-per-cent. solution of the zinc salt is gently insinuated within the nail fold, and a pad, zinc terminal, and current are then applied in the usual way. By the following day (in two cases) the angry skin becomes pale, and the purulent discharge gives place to a thin sanious fluid, and a few days later recovery is complete. In a more severe case, which for eighteen months had involved practically the loss of the use of the hand, two applications of zinc ions, separated by a ten-days' interval, were given. The discharge altered in character after the first application; within six weeks a new nail, with a well-formed lunula, had taken the place of the deformed nail, and there was no further trouble.—*Archives of Roentgen Ray.*

Depilatory in Surgery.

MAJOR ALEXANDER DON, F.R.C.S. (Edin.), in "The Lancet," recommends the following procedure to surgeons working at the Front who are faced with the problem of how to clean a large area like the scalp in a short time. The hair is first cut with a scissors or a clipper, and is next washed to loosen the clotted hair. The depilatory, which is a mixture of sodium sulphide, cold-water starch, and fine unslaked lime, is then mixed to a consistency of thick soup and is immediately well rubbed into the whole scalp. In seven to ten minutes, which is about the time it takes to prepare for a head operation, the whole can be taken off with the back of a spatula, leaving the scalp quite bare and with no cuts such as often result after shaving. No further cleaning is required, but the operation area may be further prepared to choice. Such a method ensures that the tiny wound of entrance of a rifle-bullet will not be overlooked, as often happens when shaving the area of exit alone is resorted to, no other injury being noticed on account of blood or hair or both. The preparation, it is added, is difficult to make up in such a way as to ensure its keeping, but Major Don states that he has always been able to get it from Paterson & Sons, Aberdeen, quickly and in good condition.

Treatment of Intestinal Parasites.

ACCORDING to "The Lancet," Professor Giulio Alessandrini, Rome, has discovered that chloroform is a panacea for all forms of parasitic infection whether external or internal. Chloroform offers many advantages in the treatment of intestinal parasites, since it kills the parent organisms and prevents the development of the ova, and thus also acts as a prophylactic. Combined with castor oil, which is in itself an excellent purgative, it requires no special preparation of the patient; it can be administered in a single dose, does not cause any local or general disturbance either immediate or subsequent, and is, moreover, perfectly well tolerated and not nauseous. It may be given in quantities of 3 to 4 grams, dissolved in olive or castor oil, in a single dose, and is thoroughly efficacious against the ankylostoma as well as against trichocephalus, ascariides, and oxuriides. The same drug may be employed as an efficient remedy against cutaneous

parasites. It immediately kills the adult insects and prevents the development of their eggs. Beyond a transient burning sensation on the more delicate parts of the skin it causes no local irritation, but rather has an analgesic action and soothes the most intense pruritus. It is, moreover, easy of application, and does not call for any subsidiary preparation of the patient, such as hot baths and sterilisation of garments. Professor Alessandrini advises the use of 20 to 30 per cent. chloroform in a fatty base.

Chemists' Windows.

Photographs of windows sent to the Editor for reproduction should be accompanied by notes on how the displays were arranged.



AN ESSAY IN CONSTRUCTION.

This display is made out of marbled paper. On the front of the window are stuck the pillars, suitably shaded with charcoal to give the necessary roundness and ornamental appearance. The archway has the words "The best emulsion" printed in black, while the base has the words "Nothing better." On the outside of the window is pasted a slip (black on white), "Buy only," so that looking at the window as a whole the wording appears "Buy only the best emulsion. Nothing better." The walls of this marble hall are made out of marbled paper, having on each side a raised panel upon which in white letters on a black ground are the words "The pure palatable emulsion at a popular price, 7½d. and 1s. per bottle," and "Cream emulsion may save your child's life. Try it to-day. Cost only 1s." The background, which fits up to the walls, resembles a doorway painted black with fancy scrollwork edging. The figure is cut out of white cardboard, flesh-tinted on legs and arms, with brown hair. The finger is pointing to a large dummy bottle of cream emulsion which is suspended from top of window and only just discernible in photograph. A few empty cartons on each side and also half-a-dozen of actual emulsion on the floor, which is again of marbled paper, complete this effective show.—H. A. Martin (Leicester).

CANADIAN PATRIOTISM.—The druggists of Prince Edward Island have decided to subscribe for and purchase a machine-gun and place it at the disposal of the Militia Department.

BELGIAN DOCTORS' AND PHARMACISTS' RELIEF FUND.—The following contribution has been received during the week: Grimsby Pharmacists' Association (collected by Mr. C. Dewing), 87. 17s. Mr. W. J. Uglov Woolcock, 17 Bloomsbury Square, London, W.C., is prepared to receive further subscriptions.

Insurance Drug Tariff.

The Departmental Committee's Inquiry.

THE Minutes of Evidence taken by the Departmental Committee appointed to consider the Drug Tariff under the National Insurance Acts were published as Volume II. of the Report of the Committee on Friday, October 15, and can be obtained at 2s., plus expenses, through any bookseller. The volume extends to 244 pages, including six pages of index.

The Committee met at Wellington House, Buckingham Gate, London, S.W., on eleven days beginning on March 10, 1915, the eleventh day being August 12. Sir Rowland Bailey was the Chairman, and the other members of the Committee were Dr. John Adams, Dr. Alfred Cox, Mr. James P. Gilmour, Dr. J. F. Tocher, Mr. R. V. Vernon, Mr. S. P. Vivian, and Mr. W. J. Uglov Woolcock, with Dr. E. W. Adams and Mr. James Rae as Joint Secretaries. (See C. & D., September 18, p. 41, for further particulars regarding these gentlemen and the fourteen witnesses who were examined.) The minutes are a verbatim report of their evidence. It takes about sixteen hours to read it all from beginning to end. We do not suppose that many of our readers would like to do this, therefore we have prepared the following digest, which gives a fair idea of the nature of the evidence upon which the Committee's Report (printed verbatim in our issue of September 18) was based. That Report is the thing that really matters, and it contains practically everything upon which the recommendations of the Committee were formulated.

Mr. J. RUTHERFORD HILL, Resident Secretary of the Pharmaceutical Society in Scotland, was the first witness, and attended on March 10 and 11. Mr. Hill's evidence extends to forty-four pages of the volume, and includes a Memorandum dealing with (i.) the principles on which the Drug Tariff adopted at the inception of Medical Benefit was based; (ii.) general considerations and data which led to the adoption of these principles; and (iii.) departures from the original principles in the case of Tariffs subsequently adopted in Scotland and the reasons for those departures. Mr. Hill's examination was commenced by Dr. J. F. Tocher, who interrogated him on the statements of the Memorandum and elicited the fact that, from data obtained by a special inquiry, the averages of the dispensing-fees earned by Scottish pharmacists under the Insurance Act vary from 10d. to 1s. 3d. per hour, and that the idea of the framers of the Tariff was to have a remuneration of 2s. per hour for dispensing. Dr. Cox, Secretary of the British Medical Association, followed with questions as to alleged discrepancies in the Tariff arising from the operation of the principle of a higher percentage of profit on small quantities, the minimum halfpenny, and the rule that fractional prices are to be charged to the nearest halfpenny up or down. Mr. Hill explained that the latter rule could not be applied in determining the three fixed points in the Tariff (ounce, drachm, and grain prices) for the reason that, over and over again, a drug would be supplied in a small quantity at a smaller price than at the ounce rate. Further questions by Dr. Cox related to the adequacy of the 2s. allowance to provide proper treatment. Mr. Hill's opinion on this point being that under the Tariff as it stands the whole situation can be met within the 2s. He further believed that the better terms which Scottish chemists are still asking from the Scottish Insurance Commissioners can easily be met within the 2s. The chief part of Mr. Hill's examination, however, came from Mr. Vivian, who endeavoured to elicit that Scottish chemists had secured additional business through the operation of Medical Benefit in respect of (a) persons who are "under-the-poverty line" and were previously unable to pay for medicine, and (b) persons who formerly obtained medicine on club terms unremunerative to the chemist. Mr. Hill, however, maintained that such additional business was spread over the mass of the chemists, and that the final result was a small addition of unremunerative business. Mr. Vivian also questioned Mr. Hill closely on the history of the Tariff and the fundamental principle involved, the existence of which he (Mr. Vivian) ridiculed. Mr. Hill strongly defended the Tariff, and contended that the prices and dispensing-fees were approximately the rates fixed by free and open competition and the prices which, in practice, were found to be adequate to enable the work to be done. He was, however,

forced to admit that the framers of the Tariff did not have in their minds a clear perception of the part played by what Mr. Vivian called "establishment charges." He produced the Liverpool Chemists' Price-list in support of the dispensing-fees that had been fixed. Mr. Woolcock followed and elicited particulars as to the cost of qualification incurred by pharmacists, the remuneration obtained by qualified assistants, and the custom of the trade as to the purchase of drugs, etc., from wholesale houses. Mr. Gilmour questioned the witness as to the difference between ordinary trade dispensing-fees and Tariff dispensing-fees, and the difference between ordinary retail prices for drugs and Tariff prices for drugs. Mr. Hill was able to submit to the Committee valuable data on these points. In all Mr. Hill answered 957 questions, and at the conclusion of his evidence the Chairman expressed the thanks and the obligation of the Committee to him for his very valuable evidence.

Dr. E. L. LILLEY, member of the Leicester Local Medical and Panel Committee, and Dr. P. V. FRY, member of the West Riding Panel Committee, nominees of the British Medical Association, appeared on April 14 and 15 in support of a Memorandum submitted to the Committee by that body. The Memorandum dealt chiefly with the apparent anomalies of the Tariff and suggestions for future Tariffs. The evidence of the witnesses, who were examined together, extends to fifty-eight pages of the volume, and includes answers to 1,160 questions. Dr. Lilley was first taken through the statements in the Memorandum by Mr. Woolcock, in answer to whom he stated the British Medical Association were led to take up the question of the revision of the Tariff through the Panel Committees, because they felt that there was no clear business principle carried out, and it was important that there should be. Medical practitioners had had some difficulty in eliciting any principles in the Tariff. In particular they felt that the rule of carrying fractions to the nearest halfpenny or penny up or down had not been adhered to, but that fractions had always been carried up in determining the prices of the fixed points in the Tariff. The fact that four, three, and two drachm quantities had been put in the category of primary quantities by including them in the Tariff for 1914 increased the anomalies in that, had the prices of these quantities been interpreted according to the 1913 Tariff, they would have been subject to the fractional rule. By including them in the 1914 Tariff the rule of fractions working up was adopted. Dr. Lilley quite agreed with the suggestion of the chemists that there should be a trade profit on drugs and a separate professional fee, but the Association he represented desired the charge for drugs used to be separated out from any reasonable profit, and to be separated out from the dispensing-fee completely if it is done at all. One of the suggestions put forward was that the Tariff prices should be based on the price quoted by an agreed wholesale house, the prices of the lesser quantities to be calculated from the primary quantity arithmetically, no "special consideration clause" being included; and an agreed percentage of trade profit fixed by the Committee as being fair should be added to the total of the pharmacist's account for drugs supplied apart from dispensing-fees. It was also stated that the medical profession had no desire that a chemist should lose by the operation of the Insurance Act, and that a practical basis for fixing establishment charges would be obtained by investigating the position of the chemist's business before and after the coming into operation of the Act. Mr. Gilmour followed with some questions regarding the Memorandum, after which Dr. Tocher interrogated the witnesses in regard to the desirability of steps being taken to control the quantity and quality of drugs supplied by chemists and doctors under the National Insurance Acts, the use of distilled water in making B.P. preparations, and the question of profit and dispensing-fees. Mr. Vivian then submitted the witnesses to a long and interesting examination on the economic side of the question, in which appeared the germ of the separate charge for establishment expenses. Dr. Cox and Dr. Adams also questioned the witnesses chiefly with a view to bringing out the attitude of the medical profession in regard to the alleged anomalies of the Tariff. The Chairman thanked Drs. Lilley and Fry for their interesting evidence.

Dr. C. W. HOGARTH and Dr. FROTHINGHAM ROACH, representing the London Panel Committee, were called and examined on April 23. They presented a Memorandum of evidence prepared by that Committee (a digest of this was given in the *C. & D.*, April 24, p. 114). Their evidence covers fourteen pages, and in all 297 questions were put to them. Mr. Gilmour questioned the accuracy of some of the data submitted. He elicited the fact that the witnesses considered that drugs should be supplied at cost price,

and that reasonable remuneration should be included in the dispensing-fees, which should be higher than at present. They had no desire to cut down the chemist's profits; they were there simply to rebut the allegation that the deficiency in the Drug Fund is due principally to extravagant prescribing by the doctors. They were also there to do something to save "the floating sixpence." They were examined at some length by the other members of the Committee, chiefly in regard to the statements in the Memorandum of the Panel Committee. The Chairman conveyed the thanks of the Committee to the witnesses.

Mr. J. DENTON, chief checker to the West Riding Insurance Committee, was called on April 29. He submitted to the Committee a Memorandum dealing with certain apparent defects, indirect results, and contradictory results which he had observed in the carrying-out of his duties as checker. His evidence extends to eighteen pages of the Report, and, in all, 467 questions were put to him. The most serious part of his evidence was his statement, in answer to Mr. Gilmour, that dispensing under the Insurance Act had deteriorated. Questioned further, he stated that, from his own observation, medicines were sometimes sent out in bottles which had not been washed, dirty corks were used, and half-a-dozen labels were found on the same bottle. He had no figures relating to this, but evidence could be produced. In answer to Dr. Cox, he stated that the inclination of the chemist to carry out the traditions of dispensing is there, but the ability to carry out that inclination is wanting on account of the conditions under which he is working. He suggested that the chemist did not have the time when a lot of dispensing came with a rush, and, further, the Tariff made no allowance for payment for such duties. This witness was strong against the halfpenny up or down.

Dr. V. S. PARTRIDGE, who represented the Panel Medico-Political Union, was called and examined on May 12. He submitted a Memorandum on behalf of the Union and answered 372 questions, his evidence covering fifteen pages of the Report. This was chiefly in the direction of suggesting that drugs should be charged at cost price, and that all articles supplied should carry a dispensing-fee, which should include establishment charges and professional remuneration. He considered the anomalies of the Tariff, particularly the minimum halfpenny, to be responsible for the excessive drain on the Drug Fund, and submitted that the Drug Fund should be a consolidated fund administered by some central body—e.g., the Insurance Commissioners. Dr. Partridge was thanked by the Chairman.

Dr. JOHN ORR, representing the Scottish Committee of the British Medical Association, was examined on May 13. He submitted a Memorandum on behalf of that Committee, the chief points in which were that the conditions in prescribing among Scottish doctors are entirely different compared with English and Welsh doctors, and that a different Tariff should be set up in Scotland. Experience showed that 1s. 6d. is ample to provide adequate medicinal treatment to insured persons. Suggestions were given as to a Scottish Tariff. Dr. Orr was examined at considerable length by the members of the Committee, and answered altogether 406 questions, his evidence covering sixteen pages of the Report. The Chairman expressed the obligation of the Committee to the witness for his evidence.

Mr. G. SHIRACH KITCHIN (Glasgow) attended on May 26 on behalf of the Pharmaceutical Standing Committee (Scotland). He submitted a Memorandum on matters relating to the Drug Tariff on behalf of that Committee, and his evidence, which includes answers to 736 questions, extends to twenty-six pages of the Report. Mr. Kitchin contended that the Scottish Tariff is on a commercial basis. He outlined its history, and, after enumerating the special circumstances in which Scottish dispensing practice differs from English and Welsh, submitted that the Scottish case should be separately considered. His evidence included valuable business data derived from his own experience, and he was very positive that chemists in Scotland have lost by Insurance business, chiefly because they had most of the dispensing to do before at higher rates. Mr. Vivian devoted a great deal of attention to the witness, the following paragraph of Mr. Kitchin's Memorandum being an obstacle to his questioner:

Persistent allegations of the chemists' alleged enormous profits are neither new nor limited to Insurance Act dispensing. Nearly 140 years ago a famous Scotchman, Adam Smith, chose the business of a chemist (in those days in Scotland called an apothecary) to illustrate the fallacy of thinking and speaking of percentages in connection with such small quantities without any proper regard to the oncost charges. He said:

"Apothecaries' profit is become a byword, denoting something uncommonly extravagant. This great apparent profit, however, is frequently no more than the reasonable wages of labour. The skill of an apothecary is a much nicer and more delicate matter than that of any artificer whatever, and the trust which is reposed in him is of much greater importance. He is the physician of the poor in all cases, and of the rich when the distress or danger is not very great. His reward, therefore, ought to be suitable to his skill and his trust, and it arises generally from the price at which he sells his drugs. But the whole drugs which the best employed apothecary in a large market town will sell in a year may not, perhaps, cost him above thirty or forty pounds. Though he should sell them, therefore, for three or four hundred, or at a thousand percentage profit, this may frequently be no more than the reasonable wages of his labour charged, in the only way in which he can charge them, upon the price of his drugs. The greater part of the apparent profit is wages disguised in the garb of profit."—"Wealth of Nations," Chapter x., Part I, page 87.

The questions put to Mr. Kitchin by some members of the Committee were of a nature which one would expect to come from those who are either unfamiliar with or not expert in compounding medical prescriptions. In the course of this it appeared that Dr. Cox had had independent tests made by medical dispensers, who appear to have done the work in some cases much quicker than the "Square" men, and meticulous explanations followed. The whole of this part of the evidence was directed to show that a flat-rate dispensing-fee would be iniquitous, and that consideration must be given to each form of medication.

Mr. E. F. HARRISON, B.Sc., Ph.C., F.I.C., F.C.S., was called and examined on July 1. He was questioned in regard to a Memorandum from a Sub-Committee consisting of Mr. W. J. U. Woolcock and Dr. Cox, with Dr. Adams as Secretary, deputed to arrange a dispensing-test. This dispensing-test was carried out in one of the dispensing laboratories of the Pharmaceutical Society, 17 Bloomsbury Square, by two of the Society's demonstrators in Pharmaceutics, to whom seventy-six prescriptions were given to dispense. The time taken in dispensing each of these was given, and notes on each class of preparations were appended. Mr. Harrison also submitted a Memorandum on the extension of the list of ready-made preparations included in the Tariff. Another interesting part of Mr. Harrison's evidence related to his views on local Formularies and stock mixtures. In all he answered 625 questions, his evidence extending to twenty-seven pages of the Report, and the Committee appeared to be much impressed.

Messrs. J. W. DEAKIN (Northwich), LEO JOSEPH (Cardiff), J. KIRKPATRICK (London), and J. H. NIDD (Manchester), nominated by the Pharmaceutical Society, were called and examined on the "glorious twelfth" of August. Their evidence extends to fifteen pages of the Report, that of Mr. Deakin, who was examined first, bulking most largely, but the evidence of all deals particularly with their experience, as practical pharmacists, of the operation of the Tariff and the displacement of profitable business by Insurance Act dispensing. They expressed the opinion that a Tariff in which drugs were priced at cost would be preferable to the present system, provided adequate remuneration is given for establishment charges and professional services, and would tend to equalise the remuneration for similar amounts of work as between chemist and chemist. The pertinence of this evidence is exemplified in the following extracts:

Mr. Deakin, examined by Mr. Gilmour.

Dr. Cox put it to you that many chemists in England did very little private dispensing previous to the advent of the Insurance dispensing. From your experience, do you think that the increased turnover balances any loss that may be incurred from displacement?—On the average, no.

It has been put to us from some sources that the standard of dispensing has deteriorated; that is to say, that Insurance dispensing is inferior to private dispensing?—My own experience is that it is vastly superior to anything the insured person had before. I can only speak of my own methods with regard to that. We have no stock mixtures at all. Every prescription is made individually; it is made as carefully, accurately, and efficiently as any West-end prescription would be made in the best West-end house. It is put in an absolutely clean bottle, with a perfectly new and clean label, and a new cork, carefully sealed with a disc, wrapped up in white demy, always checked by a second person, and sent out exactly as it would be in a West-end establishment. That is my own experience.

From the Opening of Mr. Nidd's Examination.

(Mr. Woolcock.) Perhaps you may be able to help us with regard to this question of displacement. From your

own knowledge has there been displacement?—Yes. I could produce my books to prove that there has been actual displacement of profitable business to the extent of, I should say, something like 25 per cent.

What proof can you offer to the Committee of that statement, because it is rather a big statement?—I could produce my cash-books for the years 1912, 1913, and 1914.

Will you produce them and let us have the figures? Tell us in your own words exactly how you propose to substantiate the assertion you have just made?—My total cash takings for the year 1912, ending December 31, were —. The total cash takings, including the amounts paid on account, for the year 1913 were —. (The figures quoted by witness showed 170l. less cash takings in 1913 than in 1912.)

(Mr. Vernon.) Those are the amounts actually received?—Yes.

Not including sums due from the Insurance Committee?—No.

(Mr. Tocher.) They are your gross receipts?—Yes.

(Mr. Vivian.) You were discounted at Manchester by about 40 per cent.; were you not?—Yes, that is so. To be absolutely correct, the payment that has been made amounts to 64½ per cent.

The discount has been reduced to 36?—Yes.

Mr. Joseph on Late Hours.

There is one point which is a great bugbear to most chemists, and that is the question of having to work very much longer hours than they used to. Take my town, where we have an early-closing hour in force among pharmacists. We close at eight o'clock. It means that those chemists who do much Insurance dispensing are kept in their establishments till ten and frequently eleven o'clock. One man was kept so much that it affected his health. He was in the largest working-class district, doing a very large trade. There were only two chemists in the district. He had two large doctors opposite him who had panels of over 3,000 jointly. It affected his health so much that for three months he went off the panel, and he came back on the panel simply because customers complained to him that they were obliged to go to his competitor, and they did not wish to. What I suggest is this: I say that medical men could assist us in that regard, and I am saying this because perhaps the Committee might make a suggestion on it. . . . The chemist has very little leisure time at his disposal, and he ought to get out, considering that he is so much indoors, using his mental activity as well as manual labour.

Insurance Notes.

MR. CHARLES ROBERTS, M.P., Chairman of the National Insurance Joint Commission, addressing the North Riding Insurance Committee recently, said he hoped that something would be done in reference to the chemists as a result of the conference with the British Medical Association and the Pharmaceutical Society.

B.M.A. AND THE DRUG TARIFF.—The Insurance Acts Committee of the British Medical Association on October 7 decided to send a communication to the Insurance Commissioners, expressing satisfaction with the Report of the Departmental Committee on the Drug Tariff, and stating that the Association is willing to accept a Tariff on the lines suggested in the Departmental Committee's Report, and to discuss details with the Commissioners if and when the Committee is assured that there will be no reduction below the minimum which was promised by the Chancellor of the Exchequer in 1912 as the assured basis of payment for doctors' services—viz., 7s. per insured person per annum. [As a result of subsequent correspondence, the Executive Sub-Committee met the Commissioners on October 14.] It was resolved to continue the present arrangement for monthly pricing of drugs in the Supplementary Tariff. In reply to a communication from the Scottish Committee, it was decided to advise Scottish Panel Committees not to contribute towards the cost of the Central Bureau until that institution is able to furnish results showing that its work will be of advantage to the Drug Fund, and that, if any Panel Committee does contribute, the contribution should not exceed one-quarter of the total contribution from the area.

RECRUITING AND WHOLESALE.—We understand that representations have been made to the proper authorities in regard to the very depleted condition of the staffs of wholesale druggists in this country, with the view to getting such men added to the starred list of those who will not be called upon in the event of compulsory service.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Associations' Winter Session.

ENGLAND.

The Cambridge Inquiry.

As a result of the recent inquiry at Cambridge upon representations by the Cambridgeshire Insurance Committee with reference to Dr. Robert Elwell Naish, 125 Newmarket Road, Cambridge (*C. & D.*, September 4, p. 54), the Commissioners are satisfied that the continuance of Dr. Naish on the medical panel for the area would be prejudicial to the interests of the insured, and have accordingly directed the removal of his name from the panel list. The report of the Committee of Inquiry states that, in the opinion of the Committee, the following facts were proved by the evidence submitted at the inquiry:

(a) That Dr. Naish in breach of his contract with the Insurance Committee did not supply drugs or appliances to insured persons to whom he had agreed to supply them, and with knowledge of his omission received the payment from the Insurance Committee as if he had duly fulfilled his contract.

(b) That Dr. Naish habitually allowed insured persons to be attended at his surgery by an unqualified person, and authorised that person to prescribe medicines and to sign certificates of incapacity for work in his (Dr. Naish's) name, in cases where he (Dr. Naish) had not himself seen the patient.

Burton-on-Trent.—At a meeting of the Insurance Committee on October 7 surcharges amounting to 45l. 10s. were approved in the cases of two doctors in respect of excessive prescribing. It was stated that chemists' accounts for 1913 and 1914 show deficits of 71l. and 89l. respectively. The checker's report showed that 9,436 prescriptions (value 204l., average cost 5.191d., and average cost per person 3.284d.) were dispensed during the second quarter of 1915. The average number of prescriptions per person on the lists was 0.633.

Croydon.—It was reported to the Insurance Committee on October 5 that the emergency settlement credits brought the 1914 Drug Fund to 4,502l., sufficient to pay chemists' accounts for the year (4,459l.) in full. Dr. Genge formally objected, on behalf of the Panel Committee, to paying the accounts until they had examined them. The Clerk was authorised to submit the prescriptions, but not the accounts, to the Panel Committee if they desired to examine them.

Essex.—The Pharmaceutical Committee met on October 13, when a complaint from a doctor, that no adequate attendance is given on early-closing day at Leyton and Walthamstow, was considered. It was established that a rota is in existence at Leyton, and that Walthamstow is adequately provided for. It was decided to ask the Leyton chemists to join the rota and to notify medical men. Arising out of a question submitted by a chemist it was resolved that *mist. copaibæ* (local Formulary) should bear an emulsion-fee. It was decided to deal with the cost of a certain doctor's prescribing under Article 40 and to demand an investigation. The Secretary (Mr. Goode) reported that 185 panel chemists had accepted the emergency settlement proposals and had received payment. Up to September 10 twenty-four chemists had not replied. The Committee discussed the report of the Departmental Committee on the Drug Tariff, and the delegates to the L.A.C. were instructed as to the attitude they should take up. It was decided that prescriptions containing private formulæ dispensed by panel chemists, in disregard of the circular dated March 19, shall be disallowed. It was decided that certain prescriptions ordering proprietary articles should be referred to the Panel Committee with a request that the practitioners concerned should be asked to show cause why they should not be surcharged.—The Insurance Committee has received credits from the Commissioners which will enable the Committee to pay 80 per cent. of the amounts of chemists' accounts for the third quarter of 1915.

Herefordshire.—The Panel Committee has agreed to support the acceptance of a Drug Tariff on a commercial basis, and considers that the present allowance of 2s. per insured person should be continued, with automatic surcharge of every practitioner the cost of whose prescriptions exceeds that figure, the Panel Committee to have power to grant certificates of indemnity entitling such practitioners to relief out of the Drug Fund of the area. The Committee also approved of continuous scrutiny and surcharging as at present, except that the Pharmaceutical Committee would have no interest therein.

Lancashire.—The Panel Committee considers that the present time is inopportune for the consideration of the proposals relating to the adoption of a commercial Drug Tariff.

Lindsey (Lincs).—The Panel Committee has approved of the application of the Pharmaceutical Committee for administrative expenses for the six months ended July 15 (13l. 7s. 10d.). With regard to the proposed commercial Drug Tariff it was decided not to recommend any change, as the time is inopportune and there are not sufficient data to work upon.

Middlesex.—The Pharmaceutical Committee met on October 13. After formal business had been disposed of, the Report of the Departmental Committee on the Drug Tariff was considered. The Secretary (Mr. Hugo Wolff) explained the points which are the subject of controversy. Mr. Skinner particularly emphasised the necessity of backing up all statements as to the inadequacy of the proposals by concrete facts. It appeared to him that chemists ought to press for a higher professional fee, as the demand since the inception of the Act had raised the money value of assistance, and the dispensing-fee of three years ago is quite inadequate at present. Many other points were raised by Messrs. Clement, Webster, Duncan, Hall, Davy, Harrison, Rigden, and Armitage, and, ultimately, the delegates to the Local Associations Conference were instructed to press for better terms and support every resolution with that object in view. The report of the Joint (Checking) Committee was considered, and the prescriptions of thirty-nine doctors were referred to the Panel Committee. During August 61,051 prescriptions (value 2,060l. and average cost 8.69d.) were dispensed.

Preston.—At a meeting of the Insurance Committee on October 13 a long discussion arose on a report of the Panel Committee on their inquiries into allegations of extravagant prescribing in 1913, their finding being that they could recommend no surcharge. The Medical Benefit Sub-Committee considered that the report afforded no guidance for the Insurance Committee as required by the Regulations, and recommended that the report be referred back to the Panel Committee for full information. Dr. Sellers, defending the attitude of the Panel Committee, said the trouble was that the members had no time to examine 166,000 prescriptions. They took certain typical prescriptions and came to the conclusion that they could make no surcharge whatever. He was firmly convinced the chemists knew as well as he did that they would never get all the money up to the present Tariff; chemists had told him they never expected to. The recommendation was approved. The Chairman of the Sub-Committee stated that he hoped the Committee would be able to pay chemists' 1914 accounts in full.

Rochdale.—Panel chemists will be paid in full for the third quarter of 1915, and will also receive the balance owing from the second quarter.

Sheffield.—Panel chemists have been puzzled by the varying amounts to be received (and in some cases to be refunded) under the proposed emergency settlement for 1914. The explanation is that in making the monthly advances cheques were drawn to the nearest 10s., so that some adjustment has to take place on the final payments.

Southampton.—The Commissioners have approved of two of the mixtures suggested by the Panel Committee for adoption under the stock-mixture clause (*mist. alba* and *mist. ferri aper.*). They have informed the Panel Committee that the other four suggested would deteriorate on keeping, and therefore cannot be allowed. The Panel Committee has rejected the suggested scheme for a commercial Drug Tariff, as the members consider it inequitable and unlikely to promote economy.

Surrey.—The prescription checking scheme under the Drugs and Appliances Joint Committee is now in working order, and Mrs. J. K. Irvine, chemist and druggist, has been appointed chief checker. The January (1915) prescriptions numbered 40,317, value (as checked) 1,405l., and average cost 8.4d. The Joint Committee has requested the Insurance Committee to request doctors and chemists to give, where necessary, the following particulars: (1) Reference to any published Formulary, such as "B.P.C."; (2) when no quantities have been stated by the doctor the exact quantities dispensed to be filled in by the chemist, as in the case of "wool," "lint," "bandages," "seven days' supply of medicine," "syrupus q.s."; (3) The maker's name and net cost price in the case of any special preparation. Chemists are requested to send only "A" forms to the Committee.

York.—The Panel Committee has approved of the expenses of the Pharmaceutical Committee being paid out

of the Drug Fund. The Committee disapproves of the introduction of a commercial Drug Tariff on the lines suggested until the drug-market shall have settled down to pre-war conditions.

Yorkshire.—The West Riding Pharmaceutical Committee met on October 12, when the Secretary (Mr. R. Broadhead) reported that the Clerk of the Insurance Committee, in conference with Mr. Sargeant and himself, had agreed that in future all points as to pricing not clearly defined by the Tariff should be submitted to the Pharmaceutical Committee for consideration, as the decisions of the Committee's technical adviser had been frequently disputed. It was decided that when a preparation is ordered for which a formula is given in the B.P.C., the prescription should be priced according to that formula, unless the doctor gives a recipe; that dispensing fees only be allowed on Tariff emulsions; and that where *tr. valerian* is ordered, the 1885 preparation shall be dispensed. Regarding the Committee's application for further representation on the Insurance Committee, the Commissioners wrote stating that such appointment would not be in accordance with the regulations. The L.A.C. agenda was discussed, and the delegates to the Conference, having gathered the feeling of the members, were instructed to use their judgment.

SCOTLAND.

General Council of Panel Chemists (Scotland).

A meeting was held at 36 York Place, Edinburgh, on Friday, October 15, Mr. Thomas Guthrie in the chair. After preliminary business had been gone through, the real business of the meeting was taken, viz.:

THE PROPOSED TARIFF.

A letter from Mr. Charles Roberts, M.P., Chairman of the National Health Insurance Joint Committee, was read, in which he asked the General Council to appoint representatives to meet him in London on an early date to discuss the proposals of the Departmental Committee. The letter also said Mr. Roberts trusted Scottish pharmacists would avoid pledging themselves in any way pending the further conversation which he suggested. The feeling of the meeting was that, in all the circumstances, they must proceed with the draft recommendations framed by the Pharmaceutical Standing Committee (Scotland), which had been already formulated and circulated to every Pharmaceutical Committee in Scotland, and that it was impracticable to delay consideration of what action should be adopted to any later date. It was agreed, nevertheless, to appoint Messrs. Thomas Guthrie, J. P. Gilmour, G. S. Kitchin, and J. Rutherford Hill as a deputation to Mr. Roberts.

RECOMMENDATIONS BY STANDING COMMITTEE.

The meeting then considered draft resolutions by the Pharmaceutical Standing Committee (Scotland), and these were, after amendment, adopted as follows:

1. That Scottish panel chemists refuse to undertake pharmaceutical service under the National Insurance Acts on the terms of the Drug Tariff as framed by the Departmental Committee, because it is financially unsound and when tested by application to about 5,000 consecutive Insurance prescriptions it indicates a reduction of about 20 per cent. on present Drug Tariff rates.
2. That while not objecting to the general principle that remuneration for pharmaceutical service should be in the form of (1) the cost price of the materials, (2) an allowance for establishment charges, and (3) a dispensing-fee, the fixing of a flat rate per prescription for establishment charges involves serious inequalities, and the proposed average amount—viz., 0.8d.—is quite inadequate.
3. That Scottish panel chemists might consider a Drug Tariff on the lines of the Report provided the cost price is adequate, provided the establishment charges are adjusted to the actual figure ascertained from experience, and provided the Scottish scale of dispensing-fees is substituted for the scale proposed by the Departmental Committee. But owing to want of time it is considered impracticable to entertain such a procedure as the basis of agreements for 1916.
4. That the Pharmaceutical Standing Committee (Scotland) be requested to consider the expediency of creating a Central Fund, by a small contribution from the Drug Fund of each area, to meet any deficit in any area after the accounts have been checked by the Central Checking Bureau and any procedure required under Regulation 40 has been carried out. If satisfied as to the expediency, the Standing Committee is empowered to take any steps necessary to carry out the proposal, after obtaining the opinion of the Pharmaceutical Committees.
5. That, owing to the continuance of abnormal war conditions, Scottish panel chemists be recommended to continue existing agreements, with satisfactory adjustment of prices, for 1916, and that the *status quo* be maintained, on the understanding that so soon as circumstances permit the whole situation shall be examined in the light of the stated case for Scottish panel chemists lodged with the Insurance Commissioners on October 1, 1915.
6. That the Pharmaceutical Standing Committee (Scotland) be empowered to take all necessary steps to carry out the policy embodied in the foregoing resolutions, and that the Report of the Departmental Committee be remitted to the Standing Com-

mittee for fuller consideration, with instructions to make such inquiries and investigations as are necessary to show why it cannot be accepted, and to formulate, if deemed advisable, satisfactory alternative proposals to be submitted to the General Council of Panel Chemists.

ABOLITION OF SCOTTISH INSURANCE COMMISSION.

It was reported that the Pharmaceutical Standing Committee and several Pharmaceutical Committees had taken prompt action to oppose the suggestion made by the National Retrenchment Committee for the abolition of the Scottish Insurance Commission, and the centralising of National Health Insurance administration in London. An explanatory letter had been sent to each Scottish M.P., along with the following resolution:

The panel chemists in your constituency are of opinion that the Scottish National Health Insurance Commission, as constituted by virtue of Section 80, Subsection (1) of the National Insurance Act, 1911, should be continued. The high standard of pharmaceutical service in Scotland and its economical and efficient administration, the recognised distinct difference between pharmaceutical practice in Scotland and in England, the difference as to Local Government law and Public Health administration, the special problems created by the scattered nature of the population and difficulties of communication and the provision of adequate medical and pharmaceutical service all emphasise the desirableness of an Insurance Commission located in Scotland and fully organised and empowered to deal with all questions relating to National Health Insurance. It would be disastrous if, even at a time of temporary national financial stress, anything should be done to sacrifice or impair a distinctively national institution. We feel sure any apparent economy would be more than counterbalanced by a loss of administrative efficiency, and as Scottish panel chemists we are wholly opposed to and protest against any proposal for the abolition of the Scottish National Health Insurance Commission.

Numerous replies had been received indicating that in the event of any such proposal being made in Parliament it would meet with resolute opposition.

THE DRUG TARIFF.

The British Medical Association circular anent possible changes of the Medical Benefit Regulations affecting the Drug Tariff was remitted to the Pharmaceutical Standing Committee (Scotland). It was pointed out that the circular and the accompanying letter from Sir Robert Morant contained many matters having a very serious bearing upon the position and status and professional interests of pharmacists, and that these matters required watchful attention.

CENTRAL CHECKING BUREAU.

It was reported that the work of the Central Checking Bureau is now rapidly being got into good order. A report by the Superintendent contained valuable practical suggestions arising from a scrutiny of more than one million prescriptions, which when carried out should facilitate the work of the Bureau, secure prompter payment for chemists, and a more satisfactory state of chemists' accounts. Conclusive evidence in favour of the abolition of repeat orders was given in the report.

Edinburgh.—The Panel Committee has confirmed its previous resolutions that no contribution should be made to the expenses of the Central Checking Bureau. The Committee decided to accept the proposals for a commercial Drug Tariff, provided that where the accounts exceed the maximum allowed, and it can be shown that the excess is due to war prices, the Practitioners' Fund is not required to pay such excess.

Fife.—The Insurance Committee has issued to panel chemists a statement of their accounts for January, February, March, May, and June, as furnished by the Central Checking Bureau, with excerpts relating to alleged irregularities. The new system of the Bureau, brought into force at a later date than the majority of the prescriptions referred to, has resulted in a clashing of methods of arrangement. The Insurance Committee has therefore arranged to have the prescriptions for the first six months returned and reported on by the Pharmaceutical Committee. Meantime, chemists are asked to report on the excerpts furnished.

Stewartry.—The Panel and Pharmaceutical Committees have each agreed to pay one-third of the amount payable by the Insurance Committee towards the expenses of the Central Checking Bureau.

WALES.

Denbighshire.—The Pharmaceutical Committee met on October 13, Mr. J. W. Adamson in the chair. The Secretary (Mr. J. E. Jones), with Messrs. Caldecott and L. B. Rowland, were appointed to revise the draft annual statement and report to the next meeting. The Treasurer (Mr. C. G. Caldecott) submitted his report, which was adopted, and Mr. Caldecott was instructed to apply to the Insurance

Committee for an advance on account of administrative expenses. Mr. F. J. Boardman was appointed auditor. The Secretary reported on prescriptions for the five months ended August 31 as follows:

	Prescriptions	Value £	Average Cost d.
April	7,351	172	5.63
May... ..	6,014	142	5.34
June... ..	5,649	136	5.79
July... ..	5,501	130	5.45
August	5,021	118	5.63

These figures show a decrease for the second quarter of 1915 of 5,753 in number, 303% in value, and 1.67d. in average cost. The Secretary also submitted the following figures for 100 prescriptions priced (a) according to the suggested new Tariff, and (b) according to the present Tariff:

	Drugs £ s. d.	Fees £ s. d.	Total £ s. d.
(a) 0 16 2.75		0 2 6	1 18 8.75
(b) 1 9 6		1 11 7	2 1 1

The agenda of the L.A.C. was discussed and the delegates instructed as to the views of the Committee.

Merthyr Tydfil.—It was reported to the Medical Benefit Sub-Committee on October 13 that chemists' accounts for the first three quarters of 1915 amounted to 699%., 504%., and 467%., compared with 907%., 698%., and 564%., for the corresponding quarters of 1914. The Clerk stated that it is hoped to pay accounts for the last quarter in full if chemists and doctors assist in checking extravagance. Miss Morris was appointed to check the prescriptions for the quarter ended September last.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Combination of Hydrogen Peroxide with Alkali Salts.—P. V. Kazanek ("J. Russ. Phys. Chem. Soc.," 1914, 46, 1,110, through "J.S.C.I.," 34, 14, p. 797) has investigated the behaviour of hydrogen peroxide towards alkali salts. With carbonates of the alkali metals, hydrogen peroxide forms unstable compounds, such as $\text{Cs}_2\text{CO}_3 \cdot 2\text{H}_2\text{O}_2$; $\text{K}_2\text{CO}_3 \cdot 2\text{H}_2\text{O}_2 \cdot \frac{1}{2}\text{H}_2\text{O}$; $\text{Na}_2\text{CO}_3 \cdot 1\frac{1}{2}\text{H}_2\text{O}_2$. These exhibit the properties of peroxides. Magnesium carbonate and hydrogen peroxide in solution yield the compound $\text{MgO}_2 \cdot \frac{1}{2}\text{MgCO}_3 \cdot \text{H}_2\text{O}$. All these yield ozone on treatment with concentrated sulphuric acid, chlorine with concentrated hydrochloric acid, and slowly liberate iodine from neutral potassium iodide solution. Various investigators have observed the increased solubility of salts in solution of hydrogen peroxide. In the case of potassium sulphate, the increase is related to the proportion of hydrogen peroxide, the presence of 72.6 grams of the latter per 100 c.c. raising the solubility of the sulphate from 11.11 grams to 67.22 grams per 100 c.c. of solution. Cryoscopic and conductivity measurements show that the peroxide and the sulphate interact chemically.

Determination of Small Quantities of Hydrocyanic Acid.—A. Viehoveer and C. O. Johns ("American Journal of Pharmacy," 1915, 6, p. 261), in the course of work on cyanogenetic plants, found it necessary to estimate small quantities of hydrocyanic acid. As the plant-distillates usually contain reducing compounds, the various titration methods and the silver gravimetric method could not be used, and the colorimetric thiocyanate method is not sufficiently accurate. After studying the conditions influencing the formation of Prussian blue, the authors recommend the following process: The solution to be tested is first made slightly alkaline by the addition of 0.02 to 0.1 gram of sodium hydroxide. It is then concentrated in a round-bottom 200-c.c. flask, by using a vacuum pump and condenser. The flask is immersed in a water-bath kept below 70°, and the concentration is continued till less than 1 c.c. of liquid remains; 0.2 to 0.5 c.c. of 3-per-cent. freshly prepared ferrous-sulphate solution and about 0.05 gram of potassium fluoride are then added. The flask is exhausted by means of a water vacuum pump, the contents are mixed by rotating the flask, and after five or ten minutes 30 per cent. nitric acid is added. The blue colour appears at once, or, if only traces of HCN are present, it may be necessary to warm to 50° on the water-bath. The suspension, which is quite free from green shade, is then diluted to a volume which would give a colour-intensity convenient to compare with a suspension of Prussian blue made from a known weight of potassium cyanide. The method furnishes a very delicate qualitative test for a cyanide, being sufficiently delicate to detect 0.00002 gram of KCN.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., October 21, 6.30 p.m.

A FAIR amount of business continues to be done in the heavy and so-called fine chemicals where supplies exist, but crude drugs are quiet generally. Prices continue to tend upwards, and as each transaction in many scarce synthetic products is a matter of individual negotiation, it follows that no fixed prices are obtainable, so that buyers must take into consideration this fact when reading the market report. This especially applies to bromides, phenazone, opium, caffeine, bismuth preparations, bleaching powder, potassium salts, etc. In quinine a large export and speculative business has again been done at a further substantial advance; but the circle of operators is narrowed on this occasion. Other alterations include an advance in copper sulphate, ipecacuanha, potash prussiate, quicksilver, menthol, and Japanese mint oil. Products having a firmer tendency include cod-liver oil, glucose, nitrate of soda, and cinnamon. Formaldehyde, creosote ex beechwood, Epsom salt, and lime-juce are easier. Among fixed oils, there has been an all-round advance, affecting castor, linseed, turpentine, soya, rape, palm, and to a less extent cottonseed and coconut oils. The principal movements have been as under:

Higher	Firmer	Easier
Bromides	Ammon. sulph. (London)	Creosote (ex beechwood)
Castor oil	Anise oil (star)	Epsom salt
Copper sulphate	Cinnamon	Formaldehyde
Ipecacuanha	Cloves	Lime-juice
Linseed oil	Coconut oil	Orange oil
Menthol	Cod-liver oil	Senna (Tr.)
Palm oil	Cottonseed oil	
Potash prussiate	Glucose	
Quicksilver	Rape oil	
Quinine (see. hands)	Rosin	
Soya oil	Soda nitrate (Liverpool)	
Turpentine		

London Markets.

ACETIC ACID.—Indications of a rise in the price of acetate of lime and acetates are reflected in a higher rate for glacial 98 to 99 per cent., which commands 112/ to 115/ per ton on the spot, packages free, according to seller, and 80 per cent. is 86/ in drums ex wharf.

ACETYSALICYLIC ACID.—The production in this country is increasing rather rapidly, and the recent rise has undergone a slight check as competition has become broader.

AMMONIA SULPHATE.—London is 2s. 6d. dearer at 14l. 2s. 6d. per ton net, naked at works, for 25-per-cent. ammonia; Hull prompt, 24-per-cent., is 15l.; Liverpool is 14l. 17s. 6d.; and Leith 15l. per ton in bags f.o.b., less 3½ per cent.

AMMONIACUM.—From recent arrivals fair palish drop is obtainable at 67s. 6d., and for finest drop 90s. is wanted.

ANISE OIL (STAR) is dearer to arrive, up to 3s. 1½d. per lb. c.i.f. having been paid for "Red Ship" brand for October-November shipment. The spot price is about 3s. 4d. to 3s. 5d.

ARSENIC.—The position is still very firm, owing to scarcity and delay in the arrival of shipments from abroad.

BALSAM PERU.—Demand has fallen off, but the price is steady at 17s. 6d. spot.

BERGAMOT OIL of 38-per-cent. esters is quoted 12s. per lb. c.i.f. London, and spot values are from 13s. to 13s. 6d.

BISMUTH SALTS.—Makers still appear to be heavily engaged with orders, and it is difficult to buy large quantities for early delivery.

BROMIDES.—The advance in prices is regarded by competent authorities to be merely temporary, as it has been brought about by the sudden appropriation of stocks in American dealers' hands and a scarcity is thereby created. The makers are busy, and there is no famine in bromides. We again caution buyers in purchasing largely at present inflated values. Undoubtedly there is a heavy demand, and it is becoming a serious matter that prices should be raised when so much is wanted for home as well as export. Sales of potassium and sodium have been made at from 14s. to 15s. per lb.; ammonium is very scarce.

CASTOR OIL is dearer, Hull make of first pressing in barrels for January delivery offering at 41l. 10s. per ton, and January-June c.m.g. at 40l. 10s. f.o.b. Hull; pharmaceutical quality is 3l. 10s. over the price of firsts in barrels. In London first pressing is 1l. dearer at 46l. 5s. per ton in barrels, ex wharf. No French or Italian medicinal appears to be had, the nominal value of the latter being about 75s.; in Liverpool good seconds Calcutta is firm at 4½d. per lb. spot and 3½d. forward.

CELERY-SEED is quoted to arrive at from 140s. to 145s. per cwt. c.i.f., but on the spot rather less will buy.

CHILLIES.—At auction in Liverpool 172 bags Sierra Leone sold at 98s. 6d. quay terms.

CHLOROFORM.—It will be observed from a statement on p. 44 that chloroform and other manufacturers have so vigorously opposed the proposed repeal of the import-duties that Clause 13 of the Finance Bill has been shelved for three weeks.

CINCHONA.—The auction of pharmaceutical-bark to be held at Amsterdam on November 4 will consist of 1,967 packages, weighing 120,160 kilos. The first-hand stock at Amsterdam on October 14 consisted of 9,329 packages Government and 43,801 packages private bark, including the first-hand parcels to be offered on November 3 and 4.

CINNAMON is quoted at from 8½d. to 9d. per lb. c.i.f. for November-December shipment of Ceylon assortment.

CITRIC ACID is in rather more demand at the unaltered rate of 3s. per lb.

CLOVES.—Zanzibar are firmer, with spot sellers at 7½d. for fair; to arrive October-December have been sold at 5½d. to 5½d. c.i.f. d.w., and for January-March delivery there are buyers at 6½d.

COCAINE is offered from 12s. 10d. to 13s. per oz., less 5 per cent. for hydrochloride. Several important transactions have taken place, and the market is firmer.

COCA-LEAVES.—The auction to be held at Amsterdam on November 4 will consist of 282 packages Java, weighing 15,533 kilos.

COD-LIVER OIL.—Our Bergen correspondent writes on October 11 that there has been a better demand, and there are buyers of finest medicinal oil at 355s. per barrel c.i.f. Other fish-oils are asked for, but there is next to nothing left on the market. In London, agents' prices vary from 360s. to 367s. per barrel c.i.f. for finest brands, and on the spot 335s. ex wharf has been paid for prime 1914 oil.

COPPER SULPHATE has advanced a further 10s. to 15s. per cwt. on an active market, the usual Liverpool brands being quoted at 31l. per ton.

CREAM OF TARTAR is unaltered at 185s. per cwt. for prompt supplies of 98-per-cent. powder.

DAMIANA-LEAVES are offered on spot at 6d. per lb. net.

EPSOM SALT.—Larger supplies having become available, more competition is evident, the value of druggists' quality being about 18s. per cwt. American shippers are offering more freely.

FORMALDEHYDE is easier at from 58s. to 60s. per cwt. for 40-per-cent. volume in casks, according to quantity. Stocks are more plentiful on spot and in U.S.A.

GLYCERIN.—It is difficult to get delivery in some instances ex contract, and, as the Government requirements must first be satisfied, consumers can only obtain small parcels.

GUAIACOL CARBONATE is almost unobtainable, and anything offering would realise about 55s. per lb.

HONEY.—New-crop light amber Californian is offered in London at 33s. per cwt. c.i.f., and water-white Hawaiian, due shortly, at 36s., landed terms.

HYDROQUINONE is quoted at from 21s. to 22s. 6d. per lb.

IFEACUANHA. Although it was possible last week to buy Matto Grosso at 14s. 6d., first-hand holders have raised their price to 17s. on the ground of depleted stocks, and this price has been paid; also 15s. paid for Minas. The *Mississippi* from New York has brought 22 bags to London, and the *Aron* has arrived in Liverpool with 40 bales from Monte Video.

JALAP has been in fair inquiry; the value of tuber-testing rather over 6 per cent. is 7½d., up to 1s. 2d. being quoted for over 13 per cent.

LEMON OIL remains slow, with the usual brands offering at from 3s. 11d. to 4s. per lb. c.i.f. London; spot values are from 4s. 3d. to 4s. 6d.

A Sicilian report, dated October 9, states that there is practically no change during the past fortnight, the market being very quiet and almost without any demand.

LIME-JUICE.—Recent arrivals have given prices an easier tendency, from 3s. 2d. per gal. upwards being quoted for West Indian.

MACE.—At auction 95 packages offered and about half sold, including fair palish 1s. 9d. to 1s. 10d., fair to good reddish 1s. 6d. to 1s. 7d., red 1s. 4d., inferior red 1s. 2d., and low broken ½d. to 8d.

MENTHOL.—The spot price is now 10s. 3d. per lb., which has been paid. To arrive fair business has been done, comprising Suzuki at 9s. 6d. and Kobayashi at 9s. 7½d. c.i.f. for January-February shipment, but higher prices are now quoted—viz., 10s. 3d. c.i.f.; in combination with oil 13s. 1½d. c.i.f. is asked, with buyers at 13s. c.i.f.

METHYL SALICYLATE is quoted at from 11s. 6d. to 12s. 6d. per lb.

MINT OIL.—Japanese dementholised is firm, the sales including Kobayashi for January-February shipment at 3s. to 3s. 1d. c.i.f., and buyers of Suzuki at 3s. c.i.f. The spot value is 3s. 1d., which has been paid.

MORPHINE is unchanged at 13s. 3d. to 13s. 6d. net for hydrochloride powder; the pure crystals are quoted at 17s. net.

NUTMEGS.—At auction 240 packages West Indian offered and practically all sold at irregular prices, large sizes selling at very high rates, medium being steady, and small cheaper.

OILS (FIXED).—*Linsed* is 1s. dearer at 28s. 9d. in pipes and at 29s. 9d. per cwt. in barrels on spot. *Cottonseed* is 9d. dearer at 30s. 9d. for crude in pipes on spot, 34s. for refined in pipes, and 37s. to 39s. for sweet refined in barrels. *Coconut* is firmer at 43s. for Ceylon and 46s. to 48s. for Cochin on spot; London pressed is 35s. *Rape* is dearer at 35s. to 37s. for ordinary brown crude, naked, and at 40s. for British refined in barrels; Japan in cases is 34s. 6d. afloat. *Soya* is dearer at 25s. 6d. to 25s. 9d. c.i.f. on passage in cases for Manchurian; Hull (spot) extracted is 28s. and crushed 28s. 6d. *Lagos Palm* on spot is dearer at 32s. spot, and in Liverpool 31s. has been paid for November-December delivery.

OPIMUM.—In the absence of adequate stocks, the market for Turkey druggists' quality on spot remains very firm, with 34s. paid for small lots, and few sellers. Persian also remains firm, up to 22s. having been paid for good test on spot.

ORANGE OIL.—Either sweet or bitter Sicilian is quoted by a leading shipper at 7s. 1d. per lb. c.i.f. London; on the spot 7s. 6d. is quoted.

PEPPERMINT OIL.—Interest is still lacking in American oil, the spot value of which, in the absence of adequate stocks, is 8s. 6d. to 8s. 9d. nominal, and for new crop few offers are available, including one of 9s. 4d. H.G.H. has been sold at 13s. London terms.

PEPPERS.—All peppers and capsicums are absolute contraband of war. Spot demand for pepper remains quiet, with sellers of fair black Singapore at 6d., Tellicherry 6½d., Alleppy 6½d., and Lampung 6d.; to arrive Singapore black for November-December shipment has been sold at 5½d. to 5½d.; sellers of fair white Singapore quote 8½d., Muntok 10½d., and fair Penang 8½d.; to arrive Singapore for November-December shipment has been sold at 8½d., and buyers.

POTASHES.—With increased difficulty in obtaining spot supplies Montreal are quoted at 120s. for first Government brand and 107s. 6d. for American.

POTASH PRUSSATE.—Supplies are scarce on spot, and business has been done up to 2s. 7½d., with 2s. 8d. to 2s. 9d. asked.

SILVER.—Silver is firm at from 16l. 5s. to 16l. 10s. per bottle.

QUININE.—The second-hand market continues to be manipulated by a few dealers profiting by a temporary scarcity of stock of spot parcels in New York, where the price has suddenly risen to an abnormal height, and the controlling interests here endeavour to create similar conditions in this market. A number of sales have been made to small speculators at up to 3s. 6d., and we do not hear that any wholesale druggist has been compelled to pay more, although this figure has been exceeded in a speculative way. The large orders from abroad which have been placed on this market have, of course, helped to drive up prices.

SALICILATES.—Current values are represented by 16s. 6d. for sodium and 16s. for acid powder. The production in the United States is steadily increasing, and this has induced makers to quote lower prices for forward delivery.

SENEGA is rather firmer, spot holders asking 1s. 11d. net, and to arrive from 1s. 9½d. to 1s. 10d. c.i.f.

SENNA.—At auction to-day (Thursday) 974 bales offered, and 680 sold at 1d. to 2d. decline for leaf, pods being ¼d. cheaper. Bold greenish leaf sold at 7d., fair 5½d. to 6½d., common to ordinary 4d. to 5½d., small common leaf 3½d. to 3¾d., inferior, part damaged, 2½d. to 3d. Pods, ordinary to good, 3½d. to 4½d.

SHELLAC is unaltered, with sellers of the usual standard TN Orange at 68s. to 69s., and free AC Garnet at 65s.; futures inactive, with sellers of December at 70s.

SODA HYPOSULPHITE is selling at from 18l. to 20l. per ton ex wharf.

SODA NITRATE.—Liverpool spot prices are 3d. dearer at 14s. 3d. per cwt. for ordinary 95 to 96 per cent. and 15s. 3d. for refined, net cash; in London ordinary is quoted 14s. 4½d. to 14s. 7½d. and refined 15s. to 15s. 3d.

SQUILL.—The chief holder asks from 45s. to 50s. per cwt. for palish white to white, and brown can be had at 30s. on the spot.

SULPHUR.—From 11l. to 12l. per ton is quoted for flowers and 10l. 10s. for roll ex wharf.

TARTARIC ACID remains a very firm market, and the prospects are for a further improvement in the position; for spot parcels 2s. 3d. is quoted. There is a good demand for crystals for Russia, but there is a spot scarcity.

THYMOL of German make is quoted in small lots at 52s. 6d. per lb.

TURPENTINE has advanced 4s. per cwt. to 39s. 9d. for American on the spot; market closes excited.

VANILLIN can still be bought at 34s. per lb. for 100-per-cent.

Arrivals of Chemicals, Drugs, etc.

During the period October 6 to 19, inclusive, the following produce from the places mentioned in parentheses has arrived at the English ports stated. Goods in transit are not included. The figures denote packages where not specifically described:

To London.
Acetic acid (Rotterdam) blns. 30, cks. 73, (N.Y.) brls. 262, (Philadel.) brls. 66
Acid phosphate (Boston) 150
Agar-agar (N.Y.) 33, (Japan) 30
Albumen (N.Y.) es. 293, (Shanghai) 112
Alcohol, wood (U.S.A.) dms. 46
Alum (Boston) 569, (N.Y.) crts. 75
Anise (France) bls. 28, (Spain) 350
Anise oil, star (Suez) 5, (H.-Kong) es. 125
Annatto-seed (Java) 37
Antimony ore (Melbourne) 2,708, (Beira) 560
Arachis oil (Bordeaux) pkgs. 129, (Rotterdam) 165
Areen (N.Y.) bgs. 11
Argol (Alicante) 303, (Barcelona) 68
Arrowroot (Trinidad) 394
Arsenic (Oporto) 124, (Paris) 24
Balsams (Pto. Columbia) es. 30
Barium chlor. (Spain) brls. 62
Barytes (U.S.A.) 486, (Genoa) 128
Bergamot oil (Messina) ½ es. 59
Borate calc. (New Orleans) sks. 5,624
Borax (Rouen) pkgs. 106
Boric acid (N.Y.) brls. 750, (Italy) 75
Bromides (Boston) es. 369
Buchu (C. Town) 19
Calcium borate (Chile) bgs. 6,000
Calcium carbide (Gothenburg) 3,044, (Rouen) dms. 600
Calcium phosphate (Bordeaux) bgs. 530
Calcium tartrate (Piraeus) 500
Calumba (Mozambique, etc.) 297
Camphor, cr. (Keelung) es. 690
Camphor, ref. (Kobe) es. 145
Capsicums (Beira) 79
Caraway-seed (Holland) 450, (Bombay) 15
Cardamoms (Colombo) 52, (Bombay) 18
Cascara sag. (Frisco) 80
Casein (Bombay) bgs. 106
Cellulose acct. (Treport) es. 15
Chemical prod. (Montreal) es. 9, (N.Y.) pkgs. 893, (France) es. 6, (Philadel.) pkgs. 749, (Paris) es. 24, (Bordeaux) brls. 12
Chemicals, medicines, perf., etc. (N.Y.) pkgs. 1,212
Chillies (Beira) 14, (Zanzibar) 48, (Mombasa) 520
Cinchona (Amsterdam) 511, (Calicut) 70
Cinnamon (Colombo) 741
Cinnamon-leaf oil (Ceylon) es. 5
Citric acid (N.Y.) brls. 20
Citronella oil (Galle) dms. 51
Cloves and stems (Zanzibar) bls. 1,311
Cocoa-butter (U.S.A.) pkgs. 786
Coconut oil (B. Ayres) cks. 45, (Ceylon) pps. 187, pns. 22, cks. 333, pkgs. 120, hds. 20, (Singapore) brls. 233, (Cochin) pkgs. 438
Cod oil (Bergen) brls. 300
Cream of tartar (Piraeus) brls. 80, (Boston) brls. 56, (Bordeaux) cks. 40
Croosote salts (Rotterdam) es. 214
Cuttle-fish bone (Bombay) pkgs. 110
Dextrin (U.S.A.) bgs. 500
Divi-divi (India) 995
Drugs and medicines (N.Y.) es. 609, (Melbourne) dms. 66, (France) bls. 6, es. 30, (Philadel.) pkgs. 242, (Boston) bxs. 127, es. 17
"Drugs, roots, etc." (N. York) pkgs. 439
Epsom salt (N.Y.) brls. 123, cks. 500, (Sydney) 420, (Melbourne) 300
Ergot (Lisbon) 8

Essential oils (Messina) pkgs. 12, (N.Y.) pkgs. 97, (France) es. 7, (Java) dms. 10, (Amsterdam) es. 24, (Rotterdam) es. 13, (H.-Kong) es. 90, (Aden) es. 20, (Philadel.) es. 10
Eucalyptus oil (Melbourne) es. 485
Farina (Holland) 100
Fig syrup (Philadel.) es. 3,120
Formaldehyde (N.Y.) 10
Galls (Aden) es. 50
Gelatin (France) bls. 80, es. 15
Ginger (Osaka) 102, (Bombay) 271
Glucose (N.Y.) brls. 7,192
Glycerin (Rotterdam) dms. 32, (Melbourne) dms. 17, (Shanghai) dms. 112
Gum acacia (Bombay) bgs. 107, (Suez) bgs. 675
Gum copal (Singapore) 426, (Aden) pkgs. 171
Gum damar (Singapore) 580, (Java) 16
Gum kauri (Auckland) pkgs. 839
Gums, undescribed (France) bls. 30, (Bombay) pkgs. 205, (N.Y.) es. 10
Herbs (Japan) bls. 30
Hexamine (N.Y.) dms. 13
Honey (N.Y.) es. 40, cks. 9, brls. 38, (St. Lucia) cks. 6, es. 28, (Havre) cks. 17, (Frisco) es. 1,984, (Paris) kgs. 10
Indigo (Madras) 230, (Colon) serons 10
Insect-flowers (Kobe) bls. 30
Iodine, cr. (Japan) es. 10
Kola (Trinidad) 3
Lemon oil (Messina) es. 14
(see also Ess. oils)
Lime-juice (Trinidad) cks. 136, pns. 58, dms. 32
Lime-juice, conc. (St. Lucia) cks. 12
Lime oil (St. Lucia) es. 15, clys. 3, (Trinidad) dms. 7, es. 25
Lime and orange oils (Dominica) es. 56
Liniment (Philadel.) bxs. 1,278
Linseed (India) bgs. 37,499, (B. Ayres) 15,734
Liquorice-juice (Marseilles) es. 95, (Naples) 85
Listerine (N.Y.) es. 550
Lithopone (Holland) 214
Mace (Bombay) es. 31
Magnesite (Madras) cks. 38, bgs. 1,219, (Holland) 137
Magnes. carb. (Amsterdam) es. 60
Menthol (Japan) es. 10
Milk-sugar (Amst.) es. 420
Mineral waters (Treport) es. 1,241, (France) 1,328
Mint oil (Japan) es. 30
Nutmegs and mace (W. Indies) pkgs. 293, (Penang) 13
Nux vom. (India) 472, (Saigon) 230
Olibanum (Bombay) es. 220
Olive oil (Marseilles) pkgs. 73, (Malaga) brls. 30, (N.Y.) tes. 110, (Genoa) brls. 7, cks. 7, es. 17, (Leghorn) pps. 100, (Bordeaux) es. 36
Opium (Calcutta) 20
Orange oil (Messina) pkgs. 21
Orchella-weed (Lisbon) 72
Orris (Leghorn) bls. 124
Pepper (Penang) 170, (Singapore) 590
Peppermint oil (Boston) es. 82, (N.Y.) 20
Perfumery (France) es. 55, (Philadel.) es. 25
"Perfumes and essences" (Amsterdam) es. 54
Petroleum emul. (Boston) bxs. 6,414, ½ brls. 60
Potash iodide (Japan) es. 28
Quicksilver (Italy) hott. 355
Quinine (Holland) es. 156
Rape-seed oil (Japan) es. 1,300
Rhubarb (Shanghai) es. 235
Roots, barks, herbs, etc. (N.Y.) bls. 180, (Marseilles) pkgs. 436, (Bombay) 32; seeds 88
Salicylic acid (N.Y.) brls. 44
Saltpetre (Calcutta) 2,844
Sarsaparilla (Colon) bls. 18
Seedlac (Calcutta) 100
Senna (Tuticorin) 871, (Bombay) 47
She-lac (Calcutta) 732; button 399
Soda, caustic (Uddevalla) es. 22
Soda nitrate (Chile) bgs. 60,971
Soda phosphate (Dieppe) pkgs. 20
Soda, undescribed (Sweden) es. 17
Spices (W. Indies) pkgs. 635
Stavesacre (Italy) bls. 20
Tamarinds (Barb.) 20, (Antig.) 14
Tartar (Alicante) 182, (Marseilles) pkgs. 659, (Lisbon) 135, bgs. 129
Tragacanth (Bombay) pkgs. 294
Turpentine (U.S.A.) brls. 7,650, (Lisbon) dms. 184
Turmeric (Bombay) 131
Urea (Gothenburg) es. 40
Vanilla-beans (vra. Wellington, N.Z.) es. 142, (France) es. 4
Verdigris (Bordeaux) cks. 13
Wax, bees' (Calcutta) 36, (Mozambique) 502, (Beira) 522, (Delagoa B.) 159, (Mombasa) 49, (Aden) 25, (P. Sudan) 206, (Lisbon) 126, (Natal) 212, (Genoa) 33
Wax, undescribed (France) pkgs. 1,506
Wine-lees (Piraeus) 200, (Amsterdam) 1,382, (Messina) 464, (Alicante) 786
Wood oil (Japan) es. 20, (H.-Kong) cks. 28
Zinc oxide (N.Y.) 1,800, (Holland) 250
To Liverpool.
Acetic acid (Philadel.) brls. 28
"Acids" (Sweden) brls. 1,000
Albumen (Shanghai) 113
Alcohol wood (U.S.A.) brls. 36
Alum (U.S.A.) brls. 28
Ammon. anhyd. (Baltimore) crts. cyl. 215
Antimony ore (B. Ayres) 763, (Chile) 10,613, (Montreal) 480
Argol (Alicante) 135, (Barcelona) 28, (Naples) 204
Barytes (Spain) 359, (Baltimore) 69
Bismuth ore (Colon) sks. 13
Boric acid (Leghorn) brls. 42
Calcium acetate (Boston) bgs. 1,519
Castor oil (Calcutta) es. 105
Chemical prod. (N.Y.) es. 30, (Montreal) es. 13
Chillies (W.C. Africa) bgs. 179
Cinchona (Colon) 187
Cinnamon-chips (Colombo) 400
Citric acid (Marseilles) cks. 12
Cloves (Zanzibar) es. 25
Coconut oil (Ceylon) pps. 180, (Sydney) dms. 1,359, (Marseilles) brls. 30
Cod-liver oil (Bergen) 15
Cream of tartar (Marseilles) cks. 18, (Barcelona) brls. 40, cks. 18, (Tarragona) brls. 24, (Bordeaux) cks. 12
Drugs, etc. (N.Y.) pkgs. 394, (Bilbao) bgs. 18, (Montreal) es. 17, (Boston) es. 233, (Havre) es. 106
Dyes (Marseilles) cks. 56
Essential oils (Messina) pkgs. 230, (Batavia) dms. 4
Formaldehyde (N.Y.) brls. 57, (Boston) 56
Ginger (W.C. Africa) 24
Glycerin (Bilbao) dms. 10
Gum acacia (P. Sudan) bgs. 833
Gum almedina (Lisbon) 45
Gums, undescribed (W.C. Africa) 146, (Alexandria) 108, (Lisbon) pkgs. 122, cks. 162
Herbs (Barcelona) bls. 20
Honey (S. Frisco) es. 1,143, (Curaçao) brls. 209
Iodine (Tocopilla) brls. 75, (Colon) brls. 210, kgs. 126
Jaborandi (Maranhão) 12
Leaves, etc. (Marseilles) bls. 94
Lime-juice (N.Y.) pns. 52, (Holland) cks. 18
Linseed (R. Plate) bgs. 31,138
Liquorice-juice (Naples) es. 199

Liquorice-root (Marseilles) bls. 50
 Mineral waters (France) cs. 716
 Olive oil (Italy) pkgs. 84, cs. 100, (Marseilles) cs. 326, (Barcelona) cs. 127, (Malaga) bls. 61, (Seville) bls. 167
 Orris (Genoa) 4
 Oxalic acid (Sweden) cks. 10
 Palm-kernels (W.C. Africa) tons 599, bgs. 74,455
 Palm oil (W.C. Africa) cks. 4,319
 Pepper (Singapore) 261, (Penang) 70
 Pepton (N. York) pkgs. 10
 Quebracho ext. (B. Ayres) bgs. 62,054
 Quillaia (Chile) 127
 Rose-water (France) djhns. 10
 Rhubarb (Shanghai) cs. 33
 Sal ammoniac skum (Baltimore) bgs. 897
 Sandalwood (Calicut) 168
 Shellac (Calcutta) 40; *button* 25
 Soda nitrate (Chile) bgs. 92,746
 Soda sulphide (Boston) bls. 27
 Soy (Manila) 100
 Sulphur (Catania) bgs. 2,505
 Tartaric acid (Genoa) bls. 7, (Naples) bls. 28
To Bristol.—Calcium carbide (N.Y.) 500; honey (N.Y.) cs. 50; potash perchloride (Montreal) cs. 83; soya-beans (Vladivostok) bgs. 66,000. *To Folkestone.*—Drugs (France) pkgs. 62; perfumery (Boulogne) pkgs. 58. *To Goole.*—Farina (Rotterdam) 400; soda prussiate (Rotterdam) 20. *To Grimsby.*—Chemical prod. (Dieppe) cks. 45; dyes (Dieppe) cs. 648. *To Hull.*—Acetic acid (Gothenburg) 95; barytes sulph. (Leghorn) 801; castor-seed (Bombay) 1,391; chemical prod. (N.Y.) bls. 331; dextrin (Holland) 50; formic acid (Holland) blns. 116; glycerin (Amsterdam) dms. 225; gum copal (W.C. Africa) bgs. 21,438; linseed (Bombay) 11,754; olive-meal, ground (Leghorn) bgs. 930; olive oil (Leghorn) bxs. 150; palm-kernels (W.C. Africa) bgs. 42,041, tons 1,003; palm oil (W.C. Africa) cks. 225, cntls. 145; soda hypo. (N.Y.) pkgs. 234; soda nitrite (Christiania) cks. 162; soda pruss. (Holland) 7; soya-beans (Vladivostok) bgs. 66,382; sulphur (Catania) tons 103, bgs. 3,550; tartaric acid (Italy) bls. 242. *To Southampton.*—Casein (Cherbourg) 10; gelatin (Honfleur) 23; milk-sugar (Cherbourg) cs. 10; thorium nitrate (Cherbourg) cs. 20.

Heavy Chemicals.

Manchester, October 19.

There was a fair attendance on the chemical side of 'Change on Tuesday, but the difficulty in transit is one which impedes business in many directions. Notwithstanding this, home producers are busy, and they have little fear of foreign competition under present conditions. It would appear that arrivals at Manchester are of no great dimensions, and affect the general position to a very small extent. Caustic soda and bleaching-powder remain firm, and in some cases a premium is charged for prompt delivery. The changes during the past week in miscellaneous chemicals have generally been upward, and prices have distinctly favoured sellers. Sulphate of copper is again dearer, owing to the strong position of raw metal. It is expected that if there is any change the manufactured product will rule higher, as there was a slight advance on Tuesday in ingot copper. Ordinary quotations are 30*l.* 12*s.* 6*d.* to 31*l.* 2*s.* 6*d.* per ton delivered Manchester. Potash salts show little change, many sorts not being quoted. Permanganate has advanced to 290*s.* per cwt. Sal ammoniac and glycerin unchanged. White powdered arsenic continues to advance, and is quoted 35*l.* to 36*l.* per ton, Manchester. Chlorate of potash is lower at 1*s.* 4½*d.*, and soda 1*s.* 1½*d.* Sulphate of ammonia in good inquiry, especially for forward delivery, at 14*l.* 17*s.* 6*d.* to 15*l.* per ton on rails, Manchester.

Continental Drug and Chemical Markets.

The following notes chiefly refer to the Hamburg and Berlin markets up to October 6:

AGAR-AGAR.—No. 1 strip is quoted at from m.875 to m.925 per 100 kilos.

ALBUMEN.—Egg is offered in rather large quantities, and prices are lower at m.11 per kilo. Chinese egg-yolk is cheaper at m.9 per kilo., as large quantities have been imported of late.

AMMON. CARB.—Though the prices advance steadily, the demand remains very active at from m.400 to m.410 per 100 kilos.

BALSAMS.—*Canada* will most probably advance in price, as this year's crop is only half of that of 1914. *Copaiba* remains firm at from m.4 to m.4.75 per kilo., as to quality. *Tolu* is quoted at from m.6.25 to m.6.50 per kilo.

BORAX is quoted at from m.180 to m.185, and boric acid at from m.265 to m.270 per 100 kilos.

Tarpentine (U.S.A.) blrs. 400
 Wax, bees' (Genoa) bls. 39, (Chile) bgs. 258, (W.C. Africa) bgs. 355, (Egypt) 14
 Wax, carnauba (So. Amer. ports) bls. 3,794
 Whale oil (St. Georgia) blrs. 26,000
 Wine-lees (Alicante) 232
 Zinc oxide (U.S.A.) 1,300, (Holland) 205
To Manchester.
 Arachis oil (Rotterdam) cks. 60
 Chemical prod. (Rouen) cks. 52, dms. 27, (Boston) blrs. 1,013, (N.Y.) pkgs. 678, blrs. 348, (Gothenburg) bgs. 200, (Philadel.) cks. 43, blrs. 447, dms. 186
 Camin-seed (Alexandria) bgs. 11
 Dextrin (Philadel.) 215
 Glucose (Quebec) 190
 Gums, undescribed (Bordeaux) bgs. 220
 Lithopone (Rotterdam) cks. 50
 Olive oil (Leghorn) bxs. 225
 Phosphorus (Montreal) cs. 810
 Soya beans (Vladivostok) bgs. 40,000
 Wax, bees' (Leghorn) 10
 Zinc oxide (Philadel.) 1,000

(Gothenburg) 1,990; glucose (N.Y.) 500; honey (N.Y.) cs. 50; potash perchloride (Montreal) cs. 83; soya-beans (Vladivostok) bgs. 66,000. *To Folkestone.*—Drugs (France) pkgs. 62; perfumery (Boulogne) pkgs. 58. *To Goole.*—Farina (Rotterdam) 400; soda prussiate (Rotterdam) 20. *To Grimsby.*—Chemical prod. (Dieppe) cks. 45; dyes (Dieppe) cs. 648. *To Hull.*—Acetic acid (Gothenburg) 95; barytes sulph. (Leghorn) 801; castor-seed (Bombay) 1,391; chemical prod. (N.Y.) bls. 331; dextrin (Holland) 50; formic acid (Holland) blns. 116; glycerin (Amsterdam) dms. 225; gum copal (W.C. Africa) bgs. 21,438; linseed (Bombay) 11,754; olive-meal, ground (Leghorn) bgs. 930; olive oil (Leghorn) bxs. 150; palm-kernels (W.C. Africa) bgs. 42,041, tons 1,003; palm oil (W.C. Africa) cks. 225, cntls. 145; soda hypo. (N.Y.) pkgs. 234; soda nitrite (Christiania) cks. 162; soda pruss. (Holland) 7; soya-beans (Vladivostok) bgs. 66,382; sulphur (Catania) tons 103, bgs. 3,550; tartaric acid (Italy) bls. 242. *To Southampton.*—Casein (Cherbourg) 10; gelatin (Honfleur) 23; milk-sugar (Cherbourg) cs. 10; thorium nitrate (Cherbourg) cs. 20.

CALCIUM CARBIDE has again been considerably advanced by the "Carbid-Verkaufsgesellschaft" to from m.33 to m.34 per 100 kilos. for large, and from m.34.50 to m.35.50 for granulated.

CARBOLIC ACID.—*Crystals* are only obtainable in very limited quantities at about m.170 per 100 kilos. for 39° to 40° C.

CHLOROFORM is quoted at from m.210 to m.220 per 100 kilos. In consequence of keen competition between makers, chloroform is being sold almost at a loss. Endeavours are made to bring about better conditions.

CITRIC ACID remains quiet at from m.7.25 to m.7.50 per kilo., according to quantity.

ERGOT is slightly firmer, with increased demand. Russian is quoted at m.6.50 and Spanish at m.7 per kilo.

GUM ACACIA.—Natural Kordofan has been sold at m.180 per 100 kilos.; soft white sorts are still obtainable at from m.210 to m.250.

LYCOPodium has been in more active demand, at m.650 per 100 kilos. in bags and m.660 in cases.

MASTICH is firm at from m.820 to m.825 per 100 kilos. for good pale tears.

MENTHOL is dull at m.28 per kilo.

OILS (ESSENTIAL).—*Star-anise* is still obtainable at m.13.50. *Cassia* remains neglected, and is quoted at from m.9.50 to m.10.50, according to c.a. content. *Eucalyptus* is offered in small quantities only at m.5. *Ceylon Lemongrass* can be had at m.6.75. *Lime* is quoted at m.22. The demand for Japanese *Mint* oil has slightly increased; some parcels have been sold at the low price of m.11.50. American peppermint oils are firm; only a few cases of H.G.H. are still to be had at from m.19 to m.20 per lb. Wayne County remains at from m.38 to m.40. Paraguayan *Petitgrain* oil is still obtainable at m.29. Siberian *Pine-needle* of first quality is unobtainable.

ROSIN is in active demand, though the prices are high at m.230 for F, m.235 for G, m.240 for H.

Quicksilver.

For several weeks past the demand for quicksilver has been very quiet compared with what it was a few months ago, but there now seems an unsettled feeling after the recent substantial reaction, which amounted to 30*s.* per bottle from the extreme highest figure of 17*l.* 10*s.* recorded not long ago. The buying pressure over the summer months was particularly marked, hence the setback with a contraction in demand was no occasion for surprise, while the receipts in August last were of more respectable proportions after having been previously abnormally reduced. Business has been possible lately down to about 15*l.* 15*s.* per bottle for second-hand lots, but this week prices have advanced to 16*l.* 5*s.* to 16*l.* 10*s.* In the early part of September very considerable quantities of Italian were contracted for shipment to this side, which naturally had the effect of accelerating the fall. It is assumed that a good deal of this metal has yet to be shipped, so that the imports should again be increased, while the receipts for last month were only 648 bottles, making a total for the nine months of 28,894 bottles compared with 36,693 in 1914, 42,843 in 1913, and 44,955 bottles in 1912. It is true that our re-exports have been steadily diminishing during recent years, the total for the nine months ended September 1912 being 24,489 bottles, and for the same period this year only 9,518 bottles. The net imports this year are thus actually less than in the previous years, so that, making allowance for the probably heavier home needs largely in connection with the manufacture of explosives (which has been one of the chief factors in the big rise this year), the reserve stocks in this country cannot be very important. The British market is now entirely dependent on imports from Spain and Italy since Austrian quicksilver was cut off, and there is certainly no possibility of securing supplies from America, where the output is not sufficient to cover domestic requirements. Nothing authentic has yet leaked out as to the fate of the Austrian mines in connection with the Italian invasion. The average price of quicksilver for September was 16*l.* 7*s.* 6*d.* per bottle, against 7*l.* in 1914, 7*l.* 1*s.* in 1913, and 7*l.* 19*s.* in 1912.

MR. CHAS. L. HIRSHING, in his weekly report on the American chemical and drug market, under date of October 7, states that some phenomenal advances have taken place since last week's report, and intense excitement prevails. Quinine has advanced 100 per cent. during the week, and speculators apparently are in full control of the situation, and their success with this article has caused them to buy liberally of other chemicals, and the market to-day is in worse shape than ever. Orders from the other side, too, have increased, and the present flurry in Wall Street in war stocks is no more exciting than the chemical-market is at present.

Pharmaceutical Society of Ireland.

Council-meeting.

THE reconstituted Council met for the first time at 67 Lower Mount Street, Dublin, on Tuesday, October 12, Mr. D. M. Watson presiding. The other members present were Dr. Chas. J. B. Dunlop, Messrs. Thomas Batt, G. D. Beggs, Joseph H. Bowden, Wm. Doig, Thos. N. Moffitt, James Tate, A. Owen Wells, and P. N. White.

Mr. WATSON, on behalf of the Dublin Retail Drug Association, thanked the Society for giving the use of the premises for their meetings.

ELECTION OF OFFICERS.

On the motion of Mr. BOWDEN, seconded by Mr. DOIG, Mr. James Tate (Vice-President) was unanimously, and amid applause, elected President of the Society for the ensuing year.

Mr. WATSON said he had great pleasure in vacating the chair in favour of the new

President, whom, he was sure, they heartily welcomed to the occupancy of the chair. They all knew that Mr. Tate had been their Northern active member for many years. It was only those who had been working on the Society's Committees who knew the amount that Mr. Tate had done in connection with the Society in the North, where there was a great deal more to be done than many members of the Society realised. He was quite satisfied that Mr. Tate would fill the chair at least as worthily as some of those who had preceded him, and he had great pleasure in handing him the presidential badge and the keys of office. (Applause.) Mr. Watson also expressed his thanks for the loyalty which had been shown towards him during his period of office as President.

Mr. TATE took the chair, and on rising to speak was received with applause. He said: This elevated and distinguished position to which you have so cordially and unanimously elected me to-day calls forth my warmest thanks. Probably you are the best fitted to judge of my ability to occupy it. At any rate, I accept it the more readily, feeling sure that any deficiency on my part will receive the generous and

heartily assistance you have always accorded to the occupant of the chair. In the first place, I desire to acknowledge the many tokens of friendship received from my worthy predecessor during my happy co-partnership with him while I occupied the vice-chair, and the equally happy tribute accorded in the transition stage. I trust that the halo of his departing brilliance may in a large measure rest on his successor, and that I shall to some extent reflect the radiance which his descending mantle has cast upon me. I cannot anticipate being able to advance the interests of the Society in a greater degree than those capable men who have preceded me in this chair. But this much I may say: that the best interests of the Irish Pharmaceutical Society are mine. In the midst of the many perplexities that beset the pharmacist's path at the present time there is one of conspicuous importance to the younger members. I refer to his status in connection with the Army Medical Service. This, matter has not, for various reasons, been pushed beyond a certain stage. I trust, however, that when the horizon becomes clearer our actions will assume a more definite course. Some time ago our most gracious King gave some terse and rather prophetic advice to our nation in the well-known words "Wake up, England!" Might I take the liberty of slightly altering this advice, and say, "Wake up, Pharmacists!" I should like, if possible, during my tenure of office, to see the seed sown in this

matter not only blossoming, but bearing fruit. Other important work will undoubtedly meet us in our path, calling forth our best energies, and in all these things I hope to take a conspicuous part. I confidently bespeak your hearty co-operation, and I trust all our words and actions will be dominated, as hitherto, with a feeling akin to our nearest Allies in the motto "Liberté, égalité, fraternité." I pray God to bless our efforts, and, if it be His will, that soon the Angel of Peace may spread his wings over the nations of Europe now engaged in deadly conflict, and give us and our Allies victory, for Christ's sake. (Applause.) I thank the gentlemen who so kindly nominated me for the chair.

Mr. Watson then invested the President with the presidential badge of the Society, and the PRESIDENT remarked that he would take care of it, and that it would be his effort not to disgrace it. (Hear, hear.)

Mr. DOIG said he had been very glad indeed to second the President's nomination, because he considered it an honour to them to have a President from the North of Ireland. He was sure Mr. Tate would hand to his successor untarnished the honour which had been conferred upon him.

On the motion of Mr. WHITE, seconded by Mr. MOFFITT, Mr. James Michie was unanimously elected Vice-President of the Society.

The PRESIDENT said he had no doubt that the Vice-President would aid him in the onerous duties of the chair. Mr. Michie was a valuable man to have in the vice-chair, and he had very great pleasure in adding his few words in his praise.

On the motion of Mr. BATT, seconded by Mr. DOIG, Mr. G. D. Beggs was unanimously re-elected Hon. Treasurer.

The PRESIDENT said Mr. Beggs had held the post for so many years, and he was so careful of their interests, that he was sure no better man could be chosen to fill the position. (Applause.)

Mr. BEGGS thanked the Council, and expressed the hope that he would have a better balance at the end of next year.

On the motion of Mr. MOFFITT, seconded by Mr. WHITE, Messrs. Batt and Bowden were unanimously elected auditors, and the PRESIDENT complimented them on the manner in which they had performed their duties in the past.

Five Committees were also elected.

CHANGES OF ADDRESS.

The following were notified:

Mr. J. S. Collins, Ph.C., from Athenry to Kiltamagh, Mr. Charles J. Farren, Ph.C., to Antrim Arms Hotel, Bushmills, co. Antrim.

Mr. Noble Graham, Ph.C., from 217 Lisburn Road, Belfast, to Drummack, Lisnaskea.

Mr. C. Maguire, Ph.C., to Eastport, Ballyshannon.

Mr. Henry Corbett Meyrick, Ph.C., to 76 Dame Street, Dublin.

Mr. John Mullin, Ph.C., from Portadown to the Medical Hall, Dunluce Street, Larne.

Mr. M. F. O'Donnell, Ph.C., to 13 Granby Place, Rutland Square, Dublin.

DEATHS

of the following were notified: Mr. John Acheson, chemist and druggist, Portadown; Mr. Thos. Boland, chemist and druggist, Tubbercurry; Mrs. Eliza Jane Gaynor, chemist and druggist, Borrisokane; Mr. Michael Farrell, chemist and druggist, Edgeworthstown; and Mr. Goodwin Henry Carleton, M.P.S.I., Larne.

PRELIMINARY REGISTRATION.

Miss Irene F. Storey, Miss May Emily Coade, Messrs. James Dawson McClelland, Daniel Broderick, Aaron Cornick, John Greaney, Alfred Lennox, and Andrew M. P. Sloan, who submitted certificates from other bodies, were admitted to Preliminary registration.

ELECTIONS.

On the motion of Mr. BEGGS, seconded by Mr. BLAIR, the following were elected as members: Mr. Charles H. Fielding, Ph.C., 66 Patrick Street, Cork; Mr. John Hartrey, Ph.C., Kilbarry, Waterford; Mr. Patrick J. Hickey, Ph.C., Rathkeale, co. Limerick; Mr. James McDowell, Ph.C., 201 Newtownards Road, Belfast; Mr. William H. MacMullan, Ph.C., 16 Main Street, Larne; Mr. Michael O'Donnell, Ph.C., Ballyvrane, Kildimo, co. Limerick; Mr. Augustine J. O'Shea, Ph.C., Greencastle Street, Kilkool, co. Down; Mr. William U. Smith, Ph.C., 47 Serpentine Avenue, co. Dublin; Mr. Charles A. J. Troughton, Ph.C., 53 Lower Sackville Street, Dublin; and Mr. Martin J. Usher, Ph.C., 12 Upper Camden Street, Dublin.

On the motion of Mr. BOWDEN, seconded by Mr. MICHIE, the following were elected as Associate Druggists: Mr. Richard Barry, R.D., The Rock Middleton, co. Cork; Mr. Robert T. Burns, R.D., Bridge House Ballinamore, co. Leitrim; Mr. James Clancy, R.D., 110 Parnell Street,



MR. JAMES TATE, Ph.C.

Served his apprenticeship with Wm. Dobbin & Co., Ltd., Belfast, and was subsequently with J. & J. Haslett, Ltd. Passed the Licence examination in April 1877, and shortly thereafter opened a pharmacy in Donegall Street, Belfast. His business prospered so greatly that he had to remove twice, and enlarged his premises, now Nos. 7 and 9 Royal Avenue. Mr. Tate was elected to the Council in 1898, and was elected Vice-President two years ago. He has been President of the Ulster Drug Trade Association for some years.

Dublin; Mr. George F. Hinchy, R.D., 146 Barrack Street, Cork; and Mr. Harry C. Smith, R.D., McIlvor's Drug-hall, Ardee, co. Louth.

NOMINATIONS.

On the motion of Mr. BEGGS, seconded by Mr. A. OWEN WELLS, the following were nominated for membership: Mr. John Flanagan, Ph.C., Cork; Mr. William McAuliffe, Ph.C., Strokestown, co. Longford; and Mr. H. T. Beggs, Ph.C., the Dalkey Medical Hall.

The PRESIDENT, referring to the last-named, said he was delighted to recognise the name of a son of a worthy father (Mr. Beggs), who had long been an ornament to the Society.

On the motion of Mr. BEGGS, seconded by Mr. MOFFITT, Mr. Samuel C. Cope, Castledermot, co. Kildare, was nominated as an Associate Druggist.

OTHER BUSINESS.

On the motion of Mr. WATSON, seconded by Mr. A. OWEN WELLS, it was agreed that an instruction be placed on the annual notice to the effect that the voting-paper must be returned enclosed in the special envelope sent out with same.

Reports from the following Committees were received and adopted: The Law Committee, the Certificates Committee, the Declarations Committee, the House Committee, the School Committee, and from the Registrar regarding the deaths of Mrs. Mary Anne Byrne, Messrs. Samuel Parker Boyd, Cornelius Buckley, John Fullerton, and Michael Martin, chemists and druggists.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed Corner for Students, "The Chemist and Druggist," 42 Cannon Street, London, E.C.

QUALITATIVE ANALYSIS.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopœia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, not a stamp merely) will be received up to Tuesday, October 26, on which day the samples will be posted. Students' reports will be received up to Saturday, November 6. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the opening exercise in

THE ANALYTICAL TOURNAMENT

for the current winter session. Students may forward six stamped addressed envelopes (marked on the top "Corner for Students"), to be utilised month by month for the "salts." We offer special certificates and prizes for the best series of reports submitted on the exercises to be set from November 1915 to April 1916 inclusive. The awards will be made to the students who obtain the highest aggregates of marks for their reports upon the whole six exercises, and will comprise:

First Prize.—Certificate of honour and books to the value of two guineas.

Second Prize.—Certificate of honour and books to the value of one guinea.

Third Prize.—Certificate of honour and books to the value of half a guinea.

The competition is open to all pharmacy students who have not passed the Major examination in Great Britain or the Licence examination in Ireland. Former tournament prizewinners are disqualified from taking a tournament prize, unless it be a superior one to that previously gained. Besides the tournament prizes, the usual monthly awards will be made to junior students, viz.:

First Prize.—Books to the value of 10s. or thereabouts.

Second Prize.—Books to the value of 5s. or thereabouts.

These monthly prizes will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact must be attested on their reports. Students who adopt a *nom de plume* must adhere to it throughout the tournament.



Chemists' Dental Society.

SIR.—Referring to letter and editorial in the *C. & D.*, October 16, relative to the Chemists' Dental Society, I think, in view of the Bill to be brought before Parliament, it would be most disastrous for the Society to be wound up as suggested. As one who has had a great deal to do with Committee-work in connection with Societies belonging to our trade, I know we have to put up with a lot of apathy, and sometimes fault-finding or worse, from some of the members, but in my experience, where the Committee and other officials had the best interests of the Society at heart, they did not mind that, but stuck to their guns determined to win through. Now is not the time, in the prospect of battle and conflict, to allow cleavage to come into the ranks; rather let the Secretary and other officials brace themselves, and use it as stepping-stones to higher things, show what they can do, and play the man. Even if they lose some members, they should still keep the Society in existence, for, no matter how small it is, it can speak with a stronger voice and be heard where the individual cannot. Personally, I would regret if the English Society had to be wound up, for I believe that, that Society and ours offering opposition, we should get our demands met or the Bill blocked. A short time since, when talking with the Committee of the Irish Society, I stated I would not resign the position of Secretary till I saw this thing through, the members getting a legal status and being put on a firm basis. That is the spirit which actuates the Irish Committee and Society, and when the time comes for action I have not a shadow of doubt that an appeal to the members to co-operate with us will have a hearty and unanimous response. With reference to admitting outsiders as members, owing to the large number of applications which we had our Committee decided that as the Society was formed for members of the drug-trade we should adhere to this original idea, although it might mean a numerical loss. I now earnestly appeal to the officials and members of the English Society not to allow their Society to go to the wall at the present time.

Belfast. JAMES D. CARR.

Mr. David S. Bennett, M.P.S.I., Joint Secretary of the Irish Dental Society (Cahiriveen, co. Kerry), has sent the subjoined letter to Mr. Roberts, Hon. Treasurer of the Chemists' Dental Society:

"Anent your letter in this week's *C. & D.*, as Joint Secretary of the Irish Dental Society, entirely confined to pharmaceutical chemists and registered druggists of Ireland, I emphatically say, Don't combine with the N.D.C. The clause in the draft Bill is especially directed against chemists, and it is as chemists, and chemists only, that we must fight it in the open; and if we do that we shall have a far better chance of getting special provision in the Bill for dental chemists, as the Legislature would not, to my mind, deprive a chemist from doing that which up till now he has been legally entitled to do; and we should have a far better chance of a continued right to practise if we put our case before Parliament as chemists than we should have if we amalgamated with any Society not entirely composed of chemists, and our case would receive far greater consideration, with, I feel convinced, ultimate success, than if we masked our individuality as dental chemists by combining with the N.D.C. To my mind, it would tend to give an impression of evasion if we did not take our stand as the special body of men against whom the clause is specially directed, and the plea of unfair treatment against dental chemists could be very much better brought home by chemists alone than by swallowing up our individuality by amalgamation with any other body of men who are not chemists. When the Irish Dental Society was enrolling its first members, I distinctly objected to several who wished to join, but who were not connected with the drug-trade, for the very reason that it would destroy the object of the Society's formation—viz., to preserve the right of dental chemists to practise as such—and I maintain that it would be courting disaster not to come boldly forward to defend those rights as dental chemists only. As such, the Legislature is at least morally bound to make provision for us in the Bill; so again I say, 'Don't.'"

Insurance Dispensing Tariff.

SIR.—Perhaps the following figures relating to the business with which I am connected may be of interest to your readers: they ought to appeal to J. Mack in particular,

seeing that they corroborate some of the "Macksims" in last week's *C. & D.* I am in an area where up to the end of 1914 the chemists' accounts under the Medical Benefit Service were paid in full. During 1914 my gross sales were 1,740*l.* 5*s.*, and the establishment charges (no account being taken for my services, interest on capital, or depreciation) were 318*l.* 16*s.*, or 18.3 per cent.:

1,740*l.* 5*s.* : 100*l.* :: 318*l.* 16*s.* : 18.3.

The 1,310 consecutive prescriptions, which I analysed to satisfy myself as to the comparative rate of remuneration under the old and the suggested new Tariff, were dispensed at a checked cost to the Insurance Committee of 38*l.* 10*s.*, or 7.05*d.* each, 18.3 per cent. of which is 1.29*d.* The startling discrepancy between this ascertained cost of 1.29*d.* per prescription and the suggested allowance of 0.8*d.* impelled me to carry out a detailed analysis of these 1,310 prescriptions, with the following result:

	£	s.	d.
The checker of the Insurance Committee allowed that my charge was correct	38	10	0
The net cost of the drugs (prices current B.D.H.), appliances and dressings (prices current M., R. & Co.) was	15	8	0
So that I realised a gross profit of	23	2	0
Deducting from this amount the ascertained establishment charges (1,310 × 1.29 <i>d.</i>)	7	0	9
I was left with a net profit of	16	1	3
Had the suggested methods of the Departmental Committee been used in pricing these same 1,310 prescriptions, the fees would have amounted to	£14	3	6
And again deducting the establishment charges of 1,310 × 1.29 <i>d.</i>	7	0	9
The net yield would have been	7	2	9

A difference against me of £8 18 6—considerably more than 50 per cent. of my present profit. Nor is this all. In my calculations, *à la* Departmental Committee, the full fee of 2.8*d.* has been allowed for the dispensing of all liquid preparations, whether the prescription was written *in extenso* or was compounded from the formulae issued by the Insurance Committee of the district in which my business is situated. If, as I suspect, these formulae are to be regarded as stock mixtures in future, the amount of 7*l.* 2*s.* 9*d.* would be correspondingly reduced, as the suggested fee on such mixtures is only 2.3*d.* per prescription—not 2.8*d.* When I take into account the responsibility and labour involved in dispensing these 1,310 prescriptions, let alone the fact that I gave up five half-holidays and gave attendance on Sundays and general holiday in order to fulfil my contract to give "reasonable facility for obtaining medicines," seven pounds two shillings and ninepence does not strike me as anything approaching to adequate remuneration. Is it too much to hope that others engaged in the business of dispensing Insurance prescriptions will give us the details of their experience also?

Yours,

MACPHELM. (5/17.)

SIR,—We do not remember that the grievance panel chemists suffer in the anomalous compilation of the Supplementary Tariff has recently been ventilated in your columns. A prescription ordering thirty-six 5-gr. aspirin (or acetosal) powders is correctly priced at 2*s.* 6*d.*: thirty-six 5-gr. tablets have to be dispensed for 9*d.* The drug itself is subject to the enhanced price in the monthly Supplementary Tariff, but the tablets are not. The same oversight is apparent with regard to tablets of phenacetin, phenacetin *co.*, guaiacol carb., phenolphthalein, and pills of quinine. Salicylates figure in the Supplementary, but lin. meth. sal. *co.*, B.P.C., listed by the wholesale houses at 11*s.* per lb., has still to be supplied by the pharmacist at 6*d.* per oz. It seems impossible to have these matters corrected (and it must be due to the fact that the compilers of the Supplementary, in the first instance, forgot that phenacetin tablets consist of phenacetin) by the authority that has the power to do it. Why should not these things be put right in the next Supplementary Tariff? The compilers know all about it. It gets very tiring, at the present price of the article, to supply twenty-four acid. acetosalieyl. tabs. for 6*d.* to the Government and know that a discount, even at this ridiculous travesty of a price, is certain to be deducted.

Faithfully yours,

Chester.

CHEERS & HOPLEY.

Fietim (7/29) asks if "the panel chemists of Glasgow are to swallow the new Tariff without lifting a finger in protest? Do they intend, like Esau, to sell their birth-right for a mess of pottage, or do they mean to band

together, and fight the cursed thing like men. If they mean to 'put up a scrap,' the time is more than ripe for taking the coats off. . . . Each year, as the time for signing the agreements comes round, we were cozened into putting our names down; now we are asked to accept a reduction of 2.16*d.* per prescription on a proposition that is net paying us on the present basis. Let us call an immediate mass meeting of Glasgow panel chemists, and say unanimously, 'We insist at least on the Tariff, the present Tariff, and nothing less than the present Tariff, with the discounting clause cut out; and, if you don't like to grant us that, take it away; we'll none of it.'"

Exp. Docet (E 7/90) considers that "pharmacy under the N.H.I. is similarly situated to medicine, because numbers ceunt. The man with few prescriptions considers it not worth doing; he who has many rejoices—he can have assistance. But when the latter is on leave, the former is beaten: his position will not allow of such a contingency. How many of us know this to our cost! N.H.I. dispensing can never be properly done until the above facts are provided for. To starve it is to ruin it or your health. . . . The chemist should be so rewarded for services rendered that he can be independent of much of his present retail. Was 0.8*d.* worked out on the dispensing part of business, or did it include the lot (patents, etc.)? It is the dispensing part which is most concerned."

Prices of Tabloids, etc.

SIR.—In reference to the difficulties arising in consequence of the frequent changes in prices, the reply given by the manager of Burroughs Wellcome & Co. is quite reasonable in present circumstances. It must, however, be noted that this is an old-standing grievance which has existed for a number of years—long before the present abnormal conditions came into being. The suggested remedy is quite feasible and practical—viz., a small advertisement in the *C. & D.* weekly notifying changes. The quotations given should be considered firm (unless in some very exceptional circumstances) till the next issue of the paper. I have long had the feeling that it is a mistake to be too ready to change prices. This is a source of much trouble to the trade and of great annoyance and irritation to the retail customers. It is far wiser, where at all practicable, to avoid unnecessary fluctuations, relying upon the profits, although varying from time to time according to the changes in prices of materials, working out quite satisfactorily on the average.

Yours, etc.,

Belfast, October 13.

WILLIAM C. DOBBIN.

The Manufacture of Thymol in India.

SIR.—Mr. P. C. Chattopadhyay in your issue of August 2nd adopts a different position. We construed his original letter to state that after making crude thymol for some years he had at last succeeded in producing pure thymol, and claimed to be the first chemist in India to do so.

We pointed out that this had been done over twenty years ago by our Mr. W. T. Grice, and that specimens of pure thymol made by him were exhibited at the Calcutta Exhibition in 1884. We also pointed out that crude thymol has been made in Central India for over fifty years, and gave our authority for the statement. Mr. Chattopadhyay now states that he did not claim to be the first to make thymol, but to be the first to make it on an industrial scale. He writes: "But so far as I know no one has made thymol here industrially." Mr. Chattopadhyay will probably be surprised to hear that the agent of an American firm of wholesale chemists has been exporting crude thymol in considerable quantities from Bombay. As the laboratory in which Mr. Chattopadhyay is employed is less than three miles from our premises, it is to be deplored that his dignity forbade him calling on us, as we would have been pleased to show him:

(a) Correspondence with native States officials quoting figures for the production of ajowan-seed and crude thymol in their States, and deploring that the production of the latter had declined owing to the low price of the imported article. In some cases the figures cover fifteen years' production.

(b) Correspondence with firms who have manufactured thymol for many years past, and who have registered brands for their product.

(c) Quotations for the immediate supply of large quantities. One dealer offered 5 cwt., and was prepared to guarantee a ton if given time to make.

(d) Receipts for the purchase of "industrial quantities" for export by us.

(e) Samples of various brands on sale in Central India which we have kept as curios to illustrate the extent of adulteration practised by the makers.

His knowledge as to the manufacture of thymol in industrial quantities in India would have been considerably expanded, and he would have been prevented from again

rushing into print with vague claims he cannot substantiate. We reiterate crude thymol was made in India in industrial quantities very many years before the Bengal Chemical and Pharmaceutical Works came into being, and it is to be regretted that claims are made on their behalf by one of their staff which every chemist of experience in India knows to be incorrect.—Yours faithfully,

SMITH, STANISTREET & CO.

Calcutta, September 17.

The Advertising-agent and the Lawyer.

SIR,—In his paragraph headed "Advertising" in your issue of October 16, "Xrayser II." likens the advertising-agent to the lawyer, and considers the comparison just, because "the former is not directly concerned with the justice of the case, nor the latter with the value of the article sold; they have no direct responsibility for what they advocate." I am not prepared to say that his conception of lawyers is not justifiable, but I do protest that every worthy advertising-agent has a higher conception of his work than will permit him to make statements he does not himself believe about the article exploited. Advertising has earned in some quarters a questionable reputation, and is still not regarded as a business force by some able business men, for the very reason that in the past many copy-writers had—as "Xrayser" suggests—no sense of responsibility for the accuracy of their statements. But the new conception of advertising is rapidly gaining ground, and professional publicity-men of the right kind will not accept commissions to advertise articles which they know to be fraudulent. Furthermore, newspapers and periodicals are assisting to place advertising on a higher level by refusing questionable—that is to say, inaccurate—advertisements. Agents or others who will advertise anything, irrespective of its merits, are gradually being eliminated or pushed to the background, chiefly through the vigorous action of the far-seeing advertising-men, who know that advertising as a profession can only thrive on truth and never on fraud. It is a matter of the reputation and integrity of the men engaged, and "Xrayser's" generalisation, although it might have been justified years ago, is to-day too sweeping to be applied to the modern publicity-expert. Commercial morality, far from being in danger owing to the shifting of the responsibility on to an unscrupulous second party, is far more likely to be safeguarded by the rising status of the service agency. The tendency of advertising, considered as a science and not as a device, will be to guard the public against the designs of unscrupulous producers, for they will not eventually be able to find an agent willing to promote the sale of fraudulent goods or bogus schemes.

Yours faithfully,

C. F. PLOWMAN.

Legal Queries.

H. J. S. (259/46).—Under the ordinary form of a lease for seven, fourteen, or twenty-one years upon whom would rest the responsibility for replacing slates and guttering which had fallen from the roof? [Upon the tenant.]

M. W. (1/69).—As stated in the *C. & D. Diary* under "Canvassers," p. 418, it is illegal for canvassers to carry dutiable medicines from door to door and sell them there, because dutiable medicines may be sold only on licensed premises.

Asklepeôs (4/13).—There is nothing to prevent the unqualified proprietor of a drug-store describing his premises as "Smith's Pharmacy." This was decided in 1909 by the King's Bench Division of the High Court in the case of the Pharmaceutical Society *v.* Mereer; here the Society took action in order to determine the extent of the powers given to them by Section 12 of the Pharmacy Act, 1852, as regards use of the title "Pharmaceutical Chemist," or any name, title, or sign implying the same. The Court's decision was that "pharmacy" is the description of a place, and not of a person; hence its use is not restricted to pharmaceutical chemists.

G. W. (4/30).—(1) It is true that Excise officers have not been instructed by General Order of the Commissioners of Customs and Excise in regard to rebate of 1s. 6d. per proof gallon of rectified spirit used by retail pharmacists in the compounding of medicinal preparations, but in the meantime you should use a record-book ruled according to the particulars given in the *C. & D.*, June 12, p. 49. (2) At the present time, when the drug-markets are subject to daily, sometimes hourly, alterations in prices, all wholesale quotations are subject to market changes, and are, as a rule, "without engagement." This would no doubt be put forward if you were to insist upon your supposed rights in the case of an article purchased through a traveller at a price which was not confirmed by his principals.

Miscellaneous Inquiries.

R. H. (243/21).—The Liverpool medical officer of health (Dr. Hope) in his report just issued says, in regard to rat-killing, "Attention is specially called to the various preparations for the extermination of rats, such as the Liverpool Virus, Ratin, Danysz Virus, and others." Arsenic is not always successful. You should see that the entrances to drains are properly trapped.

W. C. B. (243/17).—SPIRIT DRAWBACK.—See the *C. & D.*, June 5, p. 49, and June 12, p. 49, for the conditions upon which you can get back the 1s. 6d. per proof gal. paid on rectified spirit used in making medicinal preparations. You will find an alcohol-dilution table in the *C. & D. Diary*, 1914, p. 192. Your best plan with the 27- and 90-per-cent. alcohols to be mixed for 60-per-cent. is to use a hydrometer, the sp. gr. of the mixture required being 0.913.

Ajax (243/20).—THERMITE is a mixture of aluminium in powder with ferrous oxide, and is used for welding steel, but the latest use to which it has been put is by the Germans in their incendiary bombs dropped from Zeppelins.

Otto (242/18).—SYNTHETIC ROSE-ODOURS consist chiefly of geraniol and citronellol, with traces of their acetic esters, and nonyl aldehyde, phenyl-ethyl alcohol, and homologues of geraniol and citronellol added in judicious traces, so as to produce odours subtly different.

Tea (247/14).—Can you tell us the nature of the tea-improver in tablet-form? Does it contain an alkali for the purpose of softening hard water?

Rhei (4/30).—(1) THE NUMBERS ON REGISTRATION-CARDS vary with different districts, and are supposed to refer to the occupations of the individuals. Like you, we have noticed that persons following the same calling in the same district have received different numbers. Again, your number, 41, is supposed to be that allotted to journalists, whereas you are a chemist and druggist and in business as such. (2) To make LUMINOUS PAINT for watch-hands you must first buy the radioactive material, several pounds' worth at least, so we repeat the advice given before to refer to Mr. F. H. Glew's advertisement in the *C. & D.*, September 25, p. xxxii. The paint costs 2s. 5d. to 5s. per grain, according to composition, and not less than 10 gr. is supplied.

Station (247/34).—THE BALD PATCHES on your customer's head are *Alopecia areata*, which is very frequently induced by a knock on the head—e.g., by a cricket-ball—and is supposed to be due to some nerve centre being damaged. See "Pharmaceutical Formulas," p. 75. The red colour for cycle-lamps is varnish coloured with an aniline red. Suspensory bandages, elastic stockings, and glass syringes are not in the schedule of appliances appended to the Insurance Act Medical Benefit Regulations, and Insurance Committees are not authorised to pay for them; the patient must do that himself.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," October 14, 1865.

Trade Report.

The public sales of drugs have been rather small, but a tolerably good business has been done for home use, and many parcels have been taken for export to America. China Galls went dearer, but at late sales declined to 67s. 6d. to 70s. Turkey were bought in at 87. 10s. China Camphor has been in good demand at 92s. 6d. to 97s. 6d., and some large parcels of Japan on the spot, and to arrive, sold at 100s. Shellac advanced 30s. to 40s., but has again become dull. A large business has been done in Oil Aniseed at 7s. 8d. to 7s. 10d. spot, and 7s. 10d. to 8s. for arrival. A few lots Oil Cassia sold at 7s. 9d. Castor Oil is rather dearer, some good pale seconds sold at 5½d. to 6½d. Galangal-root has sold at 13s. 6d. to 14s. Citronelle Oil is ½d. dearer, last sales made at 4½d. Jalap is rather dearer. Aloes are rather dearer. Musk has brought rather higher prices. Cardamoms are steady. Cod-liver Oil is rather cheaper. Croton-seeds are much dearer, 26l. 5s. being paid for a small lot. Star Aniseeds are also dearer, 10l. 15s. being last paid. Some bales of good bright Capiivi sold at 1s. 8½d. Gums are without change. Sales of Cubebæ made at 82s. 6d. Rhatania root rather lower, common sold at 4½d. to 5d. China Rhubarb is much dearer and scarce. China Sov is dearer, 3s. 9d. to 4s. Sarsaparilla without change. Gambia is dearer, and more in request. In other goods no change.



with Quinine
Requires NO license

when sold by Registered Chemists and Druggists.

The Excise Authorities and the Law say so!

On Saturday, July 4, 1914, the Recorder at the Bradford Quarter Sessions **ALLOWED AN APPEAL** by Mr. Oliver Hobson, manager to Messrs. Savage & Co., Ltd., Chemists, of 658 Manchester Road, Bradford, against the decision of the Bradford Justices who had previously fined Mr. Hobson £3, and costs, for selling Wincarnis with Quinine without a wine license. In allowing the appeal, with costs, the Recorder said that **the conviction was wrong.**

It is, therefore, an established fact that
NO LICENSE IS REQUIRED
 to sell
WINCARNIS with QUININE

Owing to the increase in Patent Medicine Stamp Duty, we have been compelled to make a slight advance in the prices of Wincarnis with Quinine.

**NEW
PRICES**

TO THE TRADE.

Pints, now ... 25 - per doz.
 Quarts 40 - ..

TO THE PUBLIC.

Pints now ... 2/6 per bottle.
 Quarts 4/- ..

HOW IS YOUR STOCK?

COLEMAN & CO., Ltd., Wincarnis Works, NORWICH.

SYRUP

ROBORANS

(ROBERTS).

Recognized by the Medical Profession
as **THE BEST TONIC.**IN 8 AND 16-OZ. BOTTLES OF ALL
WHOLESALE HOUSES.**ROBERTS & Co.***Pharmaciens,*

LONDON.

PARIS.

76 New Bond St., W. AND Rue de la Paix, 5.

ROBERTS & CO.INVITE
INQUIRIES*For NEW & RARE*MEDICINES
OF
FRENCH
ITALIAN
AND
RUSSIAN
ORIGIN.*PRICE LIST
sent on application*STANDARD PRODUCTS
OF
INTERNATIONAL REPUTATION.**Ether**

DUNCAN

Chloroform

DUNCAN

**Ethyl
Chloride**

DUNCAN

MANUFACTURED ONLY BY

DUNCAN, FLOCKHART & CO.
EDINBURGH & LONDON.

ESSENTIAL OILS. OWN DISTILLATION.

IMPORTED AND GUARANTEED.

Inquire for Prices.

Pharma-
ceutical
Prepara-
tions.

EVANS

Druggists'
Sundries
and
Counter
Adjuncts.

TRADE



MARK.

EVANS' CHEMICALS
All Tested and Guaranteed.

EVANS SONS LESCHER & WEBB
Limited

LIVERPOOL AND LONDON.
Also New York, U.S.A.

HUBBUCK'S PURE OXIDE OF ZINC.

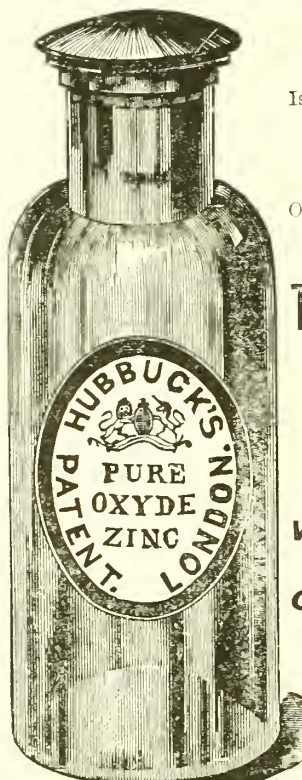
Sold by the following Wholesale Druggists in Boxes of 7 lbs. and 14 lbs. stamped by the Manufacturers; also in 1-lb. Boxes and 1-lb. Glass Bottles:—

Allen & Hanburys (Lim.)
Baiss Bros. & Stevenson (Lim.)
Bell, Jno., & Co.
Bleasdale (Lim.) [(Lim.)
Boots' Pure Drug Co.
British Drug Houses (Lim.)
Burgoyne, Burdidge & Co.
Butler & Crispe
Clay, Dod & Co.
Cockburn & Co. (Lim.)
Corbyn, Stacey & Co.
Dakin Brothers. [(Lim.)
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans Sons Lescher & Webb (Lim.)
Ferris & Co.
Gale & Co.
Glasgow Apothecaries' Co.
Glasgow New Apothecaries' Co.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan (Lim.)
Harkness, Beaumont & Co.
Hatrack, W. & R., & Co.

Hirst, Brooke & Hirst.
Hodgkinson, Prestons & King.
Hodgkinsons, Clarke & Ward.
Horner & Sons.
Huskisson, H. O., & Co.
Inman's Stores (of 1 din-boro').
Ismay, John, & Sons
Lofthouse & Saltmer (Lim.)
Oldfield, Pattinson & Co.
Pinkerton, Gibson & Co.
Raines, Clark & Co.
Raines & Co.
Rankin & Borland.
Silversides, R. B. G.
Southall Bros. & Barclay.
Sumner, R., & Co.
Taylor, James.
Thompson, John (Lim.)
Willows, Francis, Butler & Thompson (Lim.)
Woolley, Jas. Sons & Co. (Lim.)
Wright, Layman & Unney (Lim.)
Wyleys (Lim.)

Barry, E. J., New York.
Carter, Carter & Kilham, Boston.
Finlay & Branswig, New Orleans.
Langley & Michaels, San Francisco.
Lehn & Fink, New York.

McKesson & Robbins, New York.
Muth Brothers & Co., Baltimore.
Roller & Shoemaker, Philadelphia.
Schieffelin, W. H., & Co., New York.
Shoemaker, R., & Co., Philadelphia.



HUBBUCK'S PURE OXIDE

Is made by Sublimation, and is Warranted to contain upwards of

99 PER CENT.

Of Pure Oxide; in fact the impurities are not traceable.

THOS. HUBBUCK & SON,

(Established 1765) **LTD.**

**24 LIME STREET,
LONDON, E.C.**

Manufacturers of—

**White Lead, White Zinc,
Paints, Oils,
Colours, Varnishes, &c.**

AUSTRALIAN OFFICE—

34 QUEEN STREET, MELBOURNE.

The Manufacturers supply their Pure Oxide Wholesale only, in quantities of not less than 2 cwt.

RAIMES'

**Inf. Gent. Co. Conc.
Pulv. Glycyrrh. Co.
Pulv. Tragacanth. Elect.
Pulv. Rhei E.I.
Insect Powder, from all closed flowers
Tinctures prepared with finest English grain spirit**

**HAVE AN
ESTABLISHED
AND
WELL-EARNED
REPUTATION.**

Samples and close quotations for the above, also for any Standard Drugs and Preparations, on application to—

RAIMES & CO., Wholesale Druggists, YORK.

QUALITY THE FIRST CONSIDERATION.

STATE QUANTITY REQUIRED.

GRYPE WATER

REGISTERED TRADE MARK
No. 100.

The Remedy always in Popular Demand.

A BEAUTIFUL
SHOWCARD

WILL BE SENT
WITH ORDERS FOR

1 Gross of Bottles.

Minimum Retail Protected Price,
1/1 per bottle.

Carriage Paid.

1 Gross Bottles,
122/- Net Cash.

The words **GRYPE WATER** have been pronounced by the High Court of Justice to be a Valid **Trade Mark**, the exclusive property of

W. WOODWARD, Ltd., NOTTINGHAM

BROMIDES of
POTASH and SODA
CARBOLIC ACID CRYST.
:: CRESYLIC ACID ::
CAUSTIC SODA (76% Na_2O)
:: CASTOR OIL ::
GLYCERINE

FUERST BROTHERS

17 PHILPOT LANE, E.C.

TELEPHONE: 4350 LONDON WALL.
TELEGRAMS: "FUERST, GRACE, LONDON."

FOR PROMPT AND FORWARD
DELIVERY—

BROMIDES OF AMMONIUM,
POTASSIUM & SODIUM.
OXALIC ACID.
SALICYLIC ACID.
SALICYLATE OF SODA.
TARTARIC ACID CRYSTALS.
EPSOM SALTS (Druggists' quality)
ACETYL SALICYLIC ACID.

THE FABRA COMPANY, LTD.
24 MINORIES, LONDON, E.

46 Vicar Lane,
BRADFORD.

61 Fountain Street,
MANCHESTER.

Telegraphic Addresses : "Fabradom, Bradford."
"Fabradom, Manchester."
"Lofabradom, Ald, London."

Buy your Liquid Paraffin from a British
firm who have specialised in it and who only
supply oil of the greatest therapeutic value.

RUSSIAN
LIQUID PARAFFIN
British Pharmacopœia 1914

We have specialised in Liquid Paraffin
for medicinal use and studied the matter
from a scientific standpoint. Experience
has proved that the only oil suitable for
internal use which may be taken with
impunity is one refined from Russian
distillate. Make sure that the Liquid
Paraffin you purchase is pure Russian.

We can supply IN LARGE OR SMALL
QUANTITIES the finest *Russian* Liquid
Paraffin, water-white, and without odour
or taste. It answers fully all the tests
of the British Pharmacopœia. Give it
a trial when next you are in the market.
We guarantee that the oil we sell is
pure Russian.

WRITE FOR PRICE AND SAMPLE

WM. BROWNING & COMPANY

4, Lambeth Palace Road

London, S.E.

Specialists in Liquid Paraffin.

You could sell nearly every customer a jar of Resinol.

Try it to-morrow, and note the pleasant increase in the day's sales. Instruct your assistants to ask each customer if he has ever tried Resinol, and then to explain how it is a soothing, healing, antiseptic ointment, not only for Eczema, Pimples, and other skin troubles, but *invaluable* in every household for those constantly occurring rashes, chafings, cuts, bruises, burns, and a score of other uses. It takes the pain out at once, and stops itching instantly. With every sale of Resinol Ointment for *any skin trouble* you should also sell a cake of *Resinol Soap*. The patient should bathe the affected surface with Resinol Soap and hot water before applying Resinol Ointment.

SEND FOR A MINIATURE RESINOL SHAVING STICK

It's free. We want you to learn how this rich, creamy lather soothes and heals the face. When you have tried it you will WANT to recommend it to every man who comes into your shop.

Resinol Chemical Company,

97 New Oxford Street, London, W.C.,
and Baltimore, Maryland, U.S.A.

Australasian Agents: CHARLES MARKELL & CO., Sydney, N.S.W.

*We make a specialty of the
manufacture of*

GLYCEROPHOS- PHATE OF SODIUM

IN FORM OF PURE CRYSTALS.
ALSO ANHYDROUS POWDER.

WE ALSO MANUFACTURE

GLYCEROPHOSPHATE
OF CALCIUM, PURE
(Free from added acid or other impurities)

GLYCEROPHOSPHATE
OF POTASSIUM 75%

GLYCEROPHOSPHATE
OF SODIUM 75%

Monsanto Chemical Works,
ST. LOUIS, Mo., U.S.A.

*Manufacturers also of Phenacetin, Phenolph-
thalein, Vanillin, Coumarin and Saccharin.*

Ampoule Files

THE GREATEST PRODUCTION
IN THE WORLD.
THE BEST. THE CHEAPEST.

Prices and Samples sent on application to—
SIM LTD., Morges, Switzerland.
Major CYRIL SANKEY, late Royal Artillery, General Manager.

HENRI PELLIOU & CIE,

27 rue des Francs Bourgeois, Paris.

CREAM OF TARTAR 98/99%

CITRIC ACID

TARTARIC ACID

ALL ALKALOIDS & CHEMICALS.

Telegrams: "CHARPELLIO, PARIS."

Largely increased Production and Sale.

Special Terms to Large Shippers.

PRECIPITATED CHALK

CRETA PRÆCIPITATA (Calc. Carb. Præcip. Leviss.)

SPECIAL QUALITY.

FINEST, LIGHTEST,
and
PUREST
IN THE MARKET.



Every particle is passed
through a mesh of
40,000
to the square inch.

NICHOLS CHEMICAL CO., Ltd., Baxenden, Nr. ACCRINGTON.

"The purity of this Chalk is still maintained, and a feature of considerable interest to Pharmacists who pack their own dentifrices is the exceptional lightness of the article. Two ounces of the G. W. N. Brand occupy the space required for three ounces of the denser kinds in the market."—CHEMIST & DRUGGIST.

London Agents: **H. E. STEVENSON & CO.,** 122 Great Suffolk Street, S.E.
Paris Agent, **L. WEILER,** 2 Rue Theophile Roussel, 12e.
New York Agents, **P. E. ANDERSON & CO.,** 99 John Street, New York.
SAL AMMONIAC **Apply direct.** (2)

Place your Winter Contract now

FOR

MALT & OIL, COD LIVER OIL,
AT NORMAL PRICES. **MALT EXTRACT** AT NORMAL PRICES.

Finest Scotch Malt, Finest Norwegian Oil, Finest English Bottles and Jars.

SPUN OINTMENTS impalpable and absolutely uniform,
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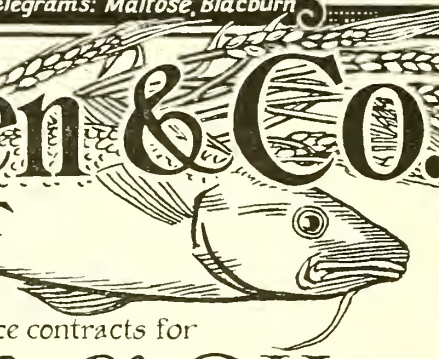
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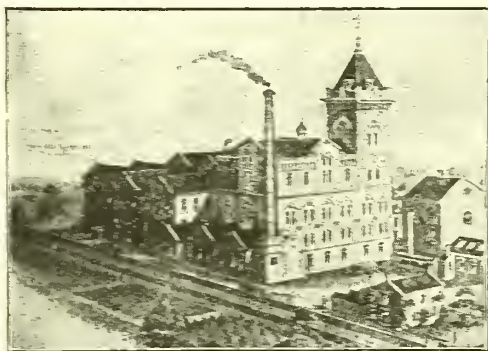
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[See p. 497 "C. & D." Diary 1915]

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Oxymel Scillæ, B.P., 5 cwt. @ 36/- cwt.; 1 cwt. @ 40/6 cwt.; 7 lbs. @ 7½d. lb.

Papain, 1-80, 1 oz. @ 2/3 oz. " "
Paraffinum Durum, B.P., 2 cwt. @ 3½d. lb.; 1 cwt. @ 3½d. lb.; 56 lbs. @ 3½d. lb.; 7 lbs. @ 4½d. lb.; Mollé Flav., B.P., 3½ cwt. @ 23/6 cwt.; 1 cwt. @ 33/- cwt.; 28 lbs. @ 4½d. lb.; 7 lbs. @ 5d. lb.; Alb. B.P., 3½ cwt. @ 66/- cwt.; 28 lbs. @ 9d. lb.

Paraldehyde, B.P., 7 lbs. @ 13/6 lb.; 1 lb. @ 13/9 lb.

Pepsin, B.P., 1 lb. @ 12/- lb.
Phenacetin, P.B., pulv., 1 lb. @ 50/- lb.
Phenazone, P.B., 1 lb. @ 50/- lb.
Phenolphthalein, 1 lb. @ 21/6 lb.

Pix. Burgund., Druggists', 1½ cwt. @ 26/6 cwt.; 7 lbs. @ 4½d. lb.

Plumbi Acetas, Druggists', 1 cwt. @ 72/- cwt.; 7 lbs. @ 8½d. lb.; Powder, 1½d. lb. extra.

Podophyll. Resina, P.B., 1 lb. @ 15/6 lb.

Potassa Caustica Sticks, P.B., 1-lb. Bots. @ 5/- lb.

Potass. Acetas, Gran. P.B., 28 lbs. @ 2/5 lb.; 7 lbs. @ 2/4 lb.

Potass. Bicarb. Pulv., 7 lbs. @ 10½d. lb.

Potass. Brom., P.B., 7 lbs. @ 12/6 lb.

Potass. Chlor. Pulv., 7 lbs. @ 1/11 lb.

Potass. Cit. B.P., 7 lbs. @ 4/3 lb.

Potass. Cyanidum, 98%, 7 lbs. @ 7/- lb.

Potass. Iod., P.B., 14 lbs. @ 15/- lb.; 3 lbs. @ 16/- lb.

Potass. Metabisulph., 7 lbs. @ 1/4 lb.

Potass. Permang., Cryst., 7 lbs. @ 3/- lb.; large cryst., 7 lbs. @ 3/6 lb.

Potass. Prussias Flav., 7 lbs. @ 2/7 lb.

Pulv. Cretæ Arom., P.B., 14 lbs. @ 8d. lb.; o. Opio, B.P., 7 lbs. @ 1/11 lb.

Pulv. Glycyrrh. Co., B.P. (Green), English Ground, 56 lbs. @ 6½/6 cwt.

Pulv. Ipecac. Comp., P.B., 1 lb. @ 5/9 lb.

Jalap Comp., P.B., 1 lb. @ 2/1 lb.

Rhei Comp., P.B., 1 lb. @ 1/6 lb.

Quassia Chips, 1 cwt. @ 32/- cwt.; 28 lbs. @ 4d. lb.

Quinine Bisulph., 25 oz. @ 3/5 oz.; 10 oz. @ 3/6 oz.

Quinine Ethyl Carb. (Tasteless), 10 oz. @ 5/6 oz.

Quinine Hydrobromas, B.P., 25 oz. @ 4/- oz.; 10 oz. @ 4/1 oz.

Quinine Hydrochlor., B.P., 25 ozs. @ 4/- oz.; 10 ozs. @ 4/1 oz.

Quinine Sulph., B.P., 100 oz. @ 3/7 oz.; 25 oz. @ 3/8 oz.; 10 oz. @ 3/9 oz.

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Rad. Jalap, English Ground, 28 lbs. @ 1/6½ lb.; 7 lbs. @ 1/8 lb.

Rad. Rhei. E.I., English Ground, 1 cwt. @ 1/5 lb.; 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9 lb.

Rad. Rhei. E.I. Trimmed, 7 lbs. @ 5/3 lb.; 1 lb. @ 5/9 lb.

Resorcin, B.P., 1 lb. @ 33/- lb.

Saccharine, 7 lbs. @ 7½/6 lb.; .550 or .500 1 lb. @ 7/- 6 lb.

Sacchar. Ust., 1 cwt. @ 33/- cwt.; 10 lbs. @ 5½d. lb.

Saffron Valentia, B.P., 7 lbs. @ 42/6 lb.; 1 lb. @ 44/- lb.; 1 oz. @ 3/1 oz.

Sal. Acet. s., 7 lbs. @ 1/5 lb.

Salicinum, B.P., 1 lb. @ 22/6 lb.

Salol, B.P., 1 lb. @ 33/- lb.

Sang. Draconis, pulv., English Ground, 7 lbs. @ 2/6 lb.

Santoninum, P.B., 16 oz. @ 1½/5 lb.

Sapo Cast. Alb., 10 cwt. @ 34/6 cwt.; 2 cwt. @ 36/6 cwt.; 7 lbs. @ 5d.; pulv., 1 cwt. @ 82/- cwt.; 56 lbs. @ 85/- cwt.; 7 lbs. @ 10d. lb.; Animal pulv., 1 cwt. @ 70/- cwt.; 56 lbs. @ 72/- cwt.; 7 lbs. @ 9d. lb.

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Soda Hyposulphite, pea cryst., 1 cwt. @ 25/6 cwt.

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***Tinct. Cantharidis**, P.B., 5 lbs. @ 4/6 lb.; bond, 1 d. lb.

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***Tinct. Quinina Amm.**, B.P., 5 lbs. @ 3/7 lb.; bond, 1/7 lb.

***Tinct. Rhei Co.**, B.P., 5 lbs. @ 2/3½ lb.; bond, 10½d. lb. Aquos, 1/1 lb.

***Tinct. Scillæ**, B.P., 5 lbs. @ 2/9 lb.; bond, 9½d. Aquos, 11d. lb.

***Tinct. Senegæ**, P.B., 5 lbs. @ 3/6 lb.; bond, 1/5½ lb. Aquos, 1/6½ lb.

***Tinct. Strophanth.**, P.B., 5 lbs. @ 4/1 lb.; bond, 10d. lb.

***Tinct. Valerianæ**, 5 lbs. @ 3/3 lb.; bond, 8d. lb. Aquos, 1/2 lb.

***Tinct. Valerianæ Ammon.**, P.B., 5 lbs. @ 3/9 lb.; bond, 9½d. lb. Aquos, 1/4 lb.

***Tinct. Zingib.**, P.B., 5 lbs. @ 4/6 lb.; bond, 11½d. lb.

***Tinct. Zingib. Fortior.**, 5 lbs. @ 4/9 lb.; bond, 1/- lb.

Treacle (Black), 24 lbs. @ 2/d. lb.

Turpentine (Best American), 1 gal. tins @ 4/6 each; Venice, Gentiane, 9 lbs. @ 2/- lb.

Ung. Acid. Boric, P.B., 28 lbs. @ 8d. lb.; Flav., 28 lbs. @ 5½d. lb.

" Acid. Carbols., B.P., 28 lbs. @ 1/- lb.; 7 lbs. @ 1/1 lb.; 1 lb. @ 1/5 lb.

" Gallæ, P.B., 7 lbs. @ 1/- lb.; 1 lb. @ 1/2 lb.; c. Opio, 7 lbs. @ 3/- lb.

" Hydragryri, B.P., 28 lbs. @ 3/- lb.; 7 lbs. @ 3/1 lb.

" Hydragr. Ammon., B.P., 28 lbs. @ 1/4 lb.; 7 lbs. @ 1/7 lb.

" Hyd. Nit. Dil., 7 lbs. @ 1/1 lb.

" Paraff. Alb., P.B., 28 lbs. @ 8½d. lb.; 7 lbs. @ 9½d. lb.; 1 lb. @ 11½d. lb.; Flav., 28 lbs. @ 6½d. lb.; 7 lbs. @ 8d. lb.

" Resinæ, P.B., 28 lbs. @ 1/- lb. 7 lbs. @ 1/1 lb.

" Sulphuris, B.P., 28 lbs. @ 9d. lb.; 7 lbs. @ 10d. lb.

" Zinci Oxid. Benz., B.P., 28 lbs. @ 9d. lb.

Wax, Japan, 2 cwt. @ 70/- cwt.; 7 lbs. @ 9d. lb.

Zinci Oleat. Powder, B.P.C., 7 lbs. @ 2/- lb.

Zinci Oxid., 1 cwt. @ 82/6 cwt.; 28 lbs. @ 9½d. lb.; 7 lbs. @ 10d. lb.

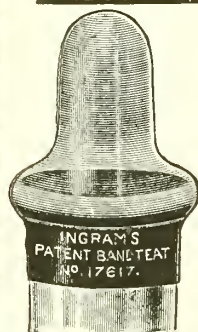
" Sulph., pure, 1 cwt. @ 52/- cwt.; 28 lbs. @ ½d. lb.

" Sulphocarbolas, B.P., 7 lbs. @ 2/6 lb.; 1 lb. @ 2/8 lb.

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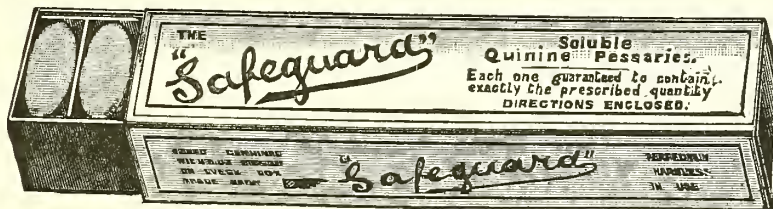
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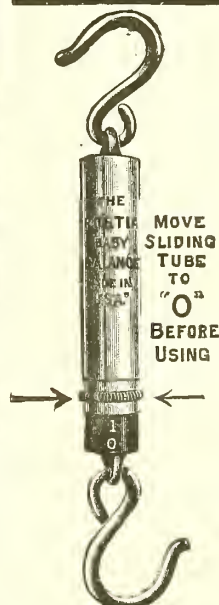
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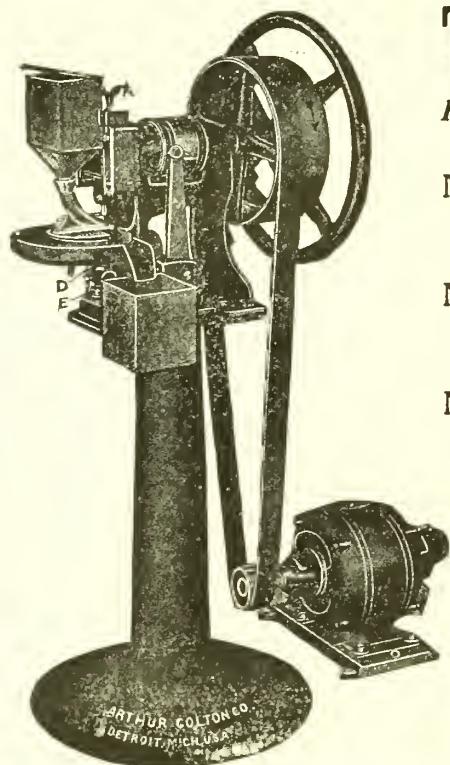
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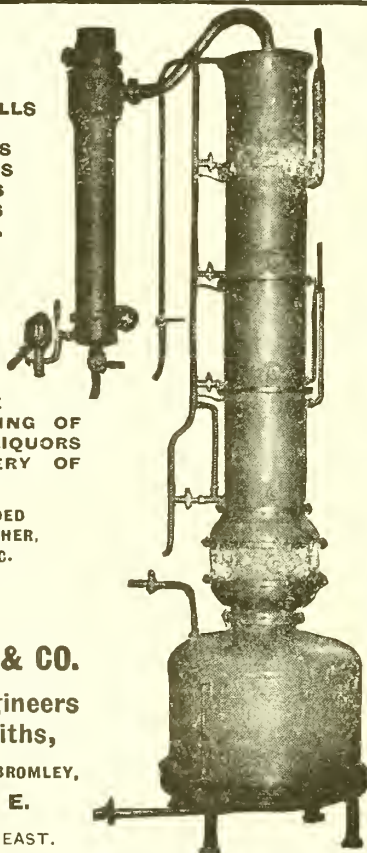
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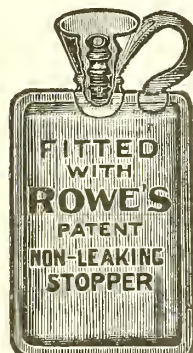
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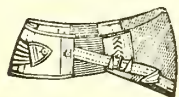
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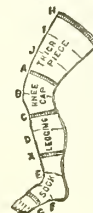


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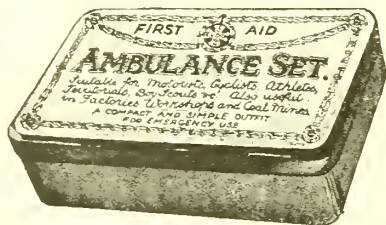
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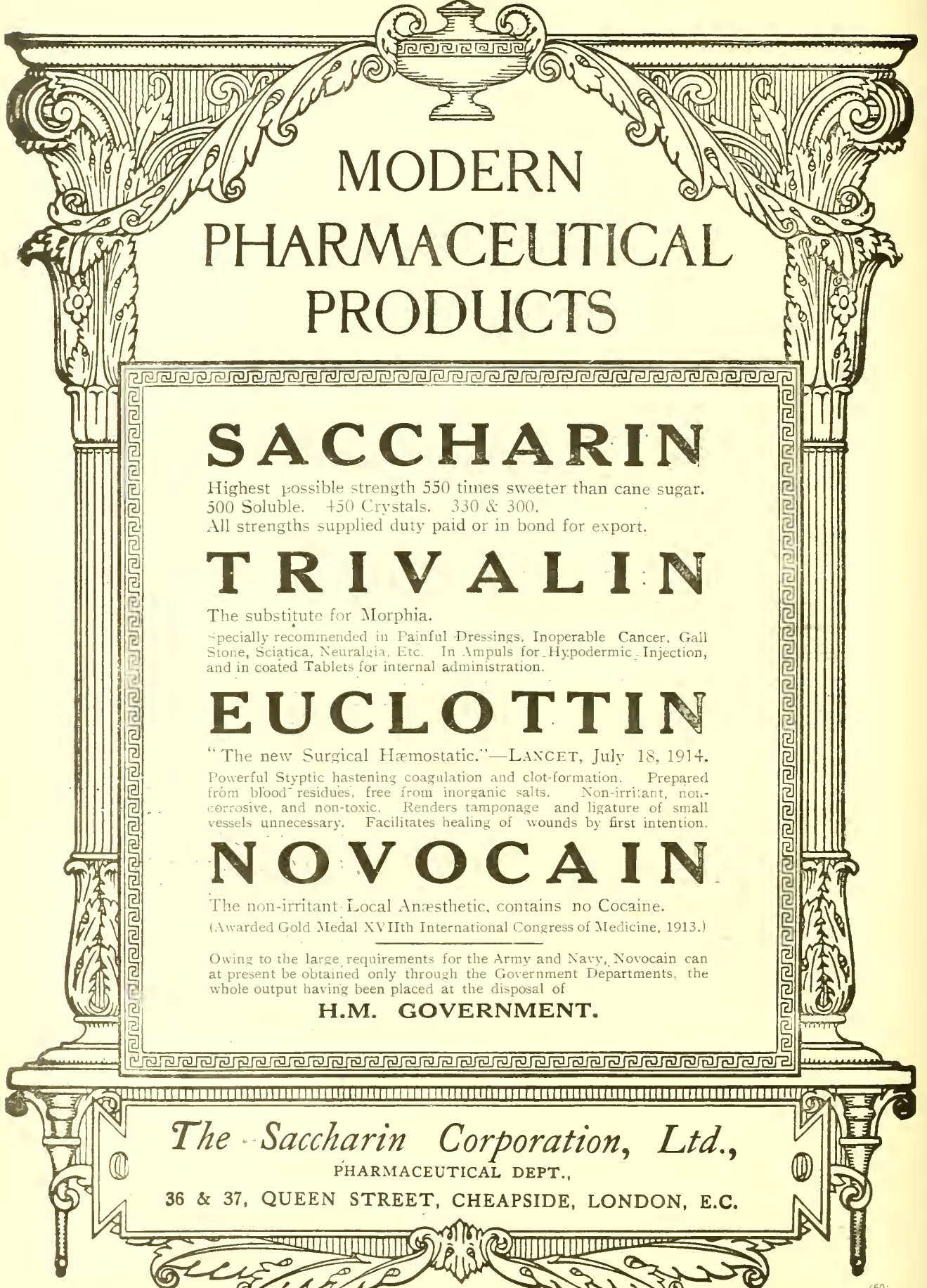
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OFFICE: 42 CANNON STREET, E.C.

SATURDAY, OCTOBER 23, 1915

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The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done.

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2.—HYDE PARK.—Established Business, Retail and Dispensing; situate in busy main thoroughfare; returns about £2,200; *net profit* £500; lease 21 years; ill-health cause of sale; price about £1,500.

3.—BANKS OF THE THAMES.—Good-class Business; situate in pleasant locality; returns £1,200; *net profit* 25 per cent.; price £800; the business is known to us and we can recommend it.

4.—LONDON, N.—General Retail and Dispensing Business; returns, under manager, between £1,000 and £1,100; *gross profit* £437; excellent opening for extension under personal supervision; books kept by an accountant and stock taken annually; every investigation allowed; price about £650, or valuation terms entertained.

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7.—MARBLE ARCH (Within Easy Distance of).—Family Retail and Dispensing Business, with little Optical and Dental; returns about £800; *net profit* £200; double-fronted corner shop, well stocked; convenient house; held on lease; price £450.

8.—SURREY HILLS.—Good-class Business; returns, present rate, about £2,000 per annum; *net profit* 25 per cent.; modern-fitted shop, fully stocked; terms, goodwill £125, stock and fixtures at valuation.

9.—SOUTH WALES (Large Town).—Middle-class Retail trade; returns between £1,400 and £1,500; *net profit* about £375; well-fitted Pharmacy and good house; terms, valuation of stock and fixtures.

10.—NORTH OF ENGLAND.—General Family Business, with N.H.I. Dispensing; returns £1,050, increasing; *net profit* £350; no serious opposition; price £650, about the value of stock and fixtures.

11.—MIDLANDS.—Light Retail, Dispensing, and Photographic; splendid opening for Dentistry and Optics; returns between £1,000 and £1,100; *net profit* £250; rent £35; about the valuation of stock and fixtures required.

12.—GLOUCESTERSHIRE.—Mixed Business; established many years; returns between £700 and £800 per annum; *estimated net profit* £200; good residence, with garden attached stocked with fruit trees; rent £21 10s.; no opposition; terms, valuation of stock and fixtures; part payment.

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14.—BERKS.—Good-class Business, Dispensing and Retail; returns £747; capable of increase; prices above the average of Retail trade; rent £34, sublet £10; long lease; unopposed; offer wanted; illness cause of sale.

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Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

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Licensed Valuers,

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Telegrams, "Brett Leicester."

Telephone 1934.

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GIVES PERSONAL ATTENTION TO ALL VALUATIONS.
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AGENCY.—We have always a large number of Buyers on our books, and we can frequently find a purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE.

£2,800 returns.—LAKE DISTRICT.—Good-class General Retail and Agricultural, with exceptionally valuable Proprietaries, one of which could with capital be extended indefinitely; net profit £560; reasonable goodwill and stock and fixtures at valuation, about £2,000.

£1,300 returns.—YORKSHIRE.—Good-class suburb of large town; Dispensing and high-class Retail for valuation of stock and fixtures, about £900.

£450 returns.—LIVERPOOL.—Branch Retail: now doing £9 weekly, with right man could do £20; price £170.

£400 returns.—MANCHESTER.—Nice-class Retail in pleasant suburb; ample scope; rent £26; price £100.

£900 returns.—LANCS.—General Retail, at good prices; at valuation, about £400.

£550 returns.—LINCOLNSHIRE.—Very old-established Business in market town; neglected; exceptional chance for increase; at value of stock and fixtures, about £400.

We have cash Buyers for businesses from
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NO CHARGE TO PURCHASERS.

1.—YORKS (West Riding).—Middle-class Business in large Manufacturing town; returns over £1,000; net profit £350; very low rent; good premises, pleasantly situated; price £650, little more than valuation.

2.—NORTH-EAST YORKS.—Profitable Cash Retail, with valuable Wine Licence; returns £900; net profit £560; central position; splendid premises; price £475 cash.

3.—WILTS.—Unopposed Light Country Retail, with Mineral Waters; returns £1,200; net profit £300 clear; large house and garden; stock worth £650; price £700.

4.—NORFOLK.—Good-class Business, in large town; neglected; returns £800; plenty of scope; corner position; low rent; price £350; £100 can remain; strongly recommended.

5.—CARDIFF.—Good middle-class Cash Retail; returns £1,400; net profit about £375; large house, garden, etc.; heavily stocked shop; price simply valuation, about £800; trial allowed.

6.—MIDDLESEX.—Good-class Retail and Dispensing; pleasantly situated; returns over £1,500; net profit fully £400; modern, up-to-date Pharmacy, well stocked; price about £950; valuation terms arranged.

7.—SOUTH COAST.—Good-class Dispensing and Retail; neglected; returns £750 under manager; plenty of scope; good position; price only £300, or near offer.

8.—LONDON, W.—Cash Retail; returns over £1,250; net profit £350; Assistant kept; price £550, or valuation.

9.—LONDON, N.W.—Good-class Retail and Dispensing Business; returns £1,000; net profit £300; good position; well fitted and stocked; price £400.

10.—LONDON, S.W.—High-class Business, in excellent position; returns £1,450; good profits; handsome shop, good stock; £500 accepted for quick sale.

STOCKTAKINGS.

We undertake stocktakings on a very low scale of commission or an agreed fixed fee, and also price out Chemists' own stocktakings. Please apply for our terms.

Businesses Wanted. Buyers Waiting.

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50 years' experience in every branch of business.

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BARCLAY & SON, LTD.

Tel. No. Finchley 812.

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And at 174 VICTORIA ST., S.W., Ph C. Tel. No. Victoria 27.

LEADING thoroughfare, West End; handsome shop; flats above are let to pay the whole rent; returns £1,000 at fair prices; sold to determine partnership; price £500 or offer; introduction given and every facility for investigation offered; books kept.

A GOOD Country Business, old-established, 30 miles out; returns £500; plenty of scope for increase; large house and premises; good garden; rent £35; price £300, or offer.

GOOD Suburban Business; nice neighbourhood, North London; modern house and shop, well fitted; returns £1,000; continuous increase; price, small goodwill and valuation.

CORNER site in principal City thoroughfare; shop and basement with four floors (two rooms each) over same, now unlet, should produce £150; returns nearly £1,200; unlimited scope; price £500 or offer, or valuation; no goodwill; rent £200; books audited yearly; introduction given; new agreement for tenancy.

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CHEMISTS' VALUERS, TRANSFER AGENTS,
AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every
10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

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BIRMINGHAM.—Well-fitted Chemist's Shop in main thoroughfare, at present carried on as a Branch; turnover between £400 and £500, without Insurance prescriptions; splendid opening for Dentistry; price about £150, or offer. Apply, 17/8, Office of this Paper.

BIRMINGHAM Suburb.—Double-fronted, handsomely fitted Shop, with good house, on main crowded thoroughfare; low rent; doing £10 weekly; could be easily doubled; owner leaving Retail; price to immediate purchaser £100; worth £200; suit beginner. Apply, "Bargain" (18/25), Office of this Paper.

CO. DURHAM.—For immediate Disposal, small unopposed Business; good opening for Panel; suitable for qualified or unqualified; lock-up shop at very low rental; would sell for quick sale at valuation of stock and fixtures. For further particulars apply J. H. Turner, 38 Middle Street, Consett.

EASTERN Counties.—Business for Sale, owing to proprietor having been offered commission in his Majesty's Forces; turnover last year £1,700. "Eastern" (8/44), Office of this Paper.

HUNTLY, ABERDEENSHIRE.—For immediate Disposal, owing to death of proprietor, excellent old-established Business; largely Dispensing; turnover £1,550; stock about £800; along with business premises and property adjoining; valued rental of house and shop £40; total rental £80. For further particulars apply Alex. Smith, Bank Agent, Huntly, N.B.

LONDON (City).—High-class old-established Retail and Dispensing Business in main thoroughfare; attractive leasehold lock-up Shop, handsomely fitted and well stocked; returns 1914, £2,300; opening for man with moderate capital. Apply, 16/17, Office of this Paper.

LONDON, N.W.—Old-established Cash Retail for immediate Disposal owing to sudden death of owner; situate populous working-class neighbourhood; small house attached; good N.H.I. returns; cheap for quick sale and cash; splendid opportunity; genuine sale. Apply, 16/19, Office of this Paper.

LONDON, S.W.—Owing to War-time scarcity of Assistants, Advertiser offers his high-class suburban Business for immediate Disposal; Pharmacy well stocked with up-to-date goods; good fittings, electric light, and gas; on main road; long lease; fully insured against all War risks, £1,000; price £500, cash down or by arrangement. Apply, "Specs" (9/54), Office of this Paper.

LONDON, W. (Few Miles Out).—Death vacancy; good-class Light Retail and Dispensing Business; well established; returns nearly £1,150; producing a clear net income of £400; Assistant kept; excellent position; large house and Pharmacy; price £750; will bear close inspection. Apply, "Widow" (21/27), Office of this Paper.

MIDDLESEX.—Good-class Family Retail in pretty residential district; established nearly 11 years; proprietorship unchanged; returns average £860; can be increased; net profit £255; valuer's report can be seen; rent £60 on lease; excellent house, side entrance; Pharmacy, double-fronted, mahogany fitted, well stocked; price £500 net cash. 19/29, Office of this Paper.

NORTH.—General Family Retail and Country Retail, in pleasant market town; fine shop and good house, with yard and garden; returns now £850; have been more and can again with personal attention; for sale of stock and fixtures about £400, part of which can remain. "North" (20/32), Office of this Paper.

NORTH OF ENGLAND.—For Sale, Drug, Patent-medicine, and Wine (medicated) Business; low rental; good position; agents declined. 3/28, Office of this Paper.

NORTH WALES.—For immediate Disposal, old-established Business in seaside resort and yachting centre; Optics and Lending Library; well stocked; inspection invited; expenses very low; rent £35; turnover about £700, and increasing annually; net profit about £200; price £500 net, cash. Address, 16/21, Office of this Paper.

SOUTHERN County.—Within 40 miles of London, high-class Dispensing Business for Disposal through family reasons; turnover exceeds £1,200, profits fully half; occupying good position, and can be much increased in energetic hands; will accept £700, or small goodwill and valuation. Address, "Prescription" (21/270), Office of this Paper.

YORKSHIRE.—Good-class Retail and Dispensing Business for Sale, with National Health Dispensing, full Wine Licence; no opposition; returns £550. Particulars, "A." (20/6), Office of this Paper.

YORKSHIRE (East Riding).—Cash Retail Business for Disposal, on main road of large town; returns about £600, and capable of considerable increase; well fitted and stocked; good house. 20/24, Office of this Paper.

AN established Wholesale Druggist and Chemist Business for immediate Disposal; excellent plant and machinery; splendid position and connection; certified accounts. For further particulars apply Parkin S. Booth, F.A.A., Accountant to the Association of Manufacturing Chemists, Ltd., 2 Bixteth Street, Liverpool, and 32 Kimberley House, Holborn Viaduct, London, E.C.

DRUGGIST'S Business in populous locality in Aberdeen for Sale; easy entry; stock and fittings, say, £50-£60. Apply, William D. Reid, Solicitor, 5 Hadden Street, Aberdeen.

FOR Sale by Private Treaty.—Shop and Premises, 7 Sadler Gate, Derby, off Market Place, now occupied by Hart & Co. Chemists; for the past 80 years the business of a Chemist and Druggist has been successfully carried on. For particulars apply, W. H. Kent, Estate Agent, Market Place, Derby.

FOR Sale, well stocked and fitted Drug Store; established 23 years; increasing turnover; good opening for Panel; no immediate opposition; house accommodation; low rent and rates; few Patents; corner premises; bad health only reason for selling; gross profit 50 per cent.; £100 or nearest offer for quick sale. "Lincoln" (18/38), Office of this Paper.

LOCK-UP Shop, near London; population 5,000; absolutely unopposed; suit qualified or unqualified; net profit last year £170; very good profits; largely Prescribing; present hands 7 years; books kept; owner cannot give full time; small capital required; no reasonable offer refused; line recently electrified. 41 Selwyn Avenue, Richmond, S.W.

MANUFACTURING Town near Manchester.—Drug Store; Light Retail and Prescribing; main road; no opposition; doing £9 weekly; neglected; qualified man could do £18 to £20 certain; profits good; nice house and shop; rent £26; price valuation, about £180; or fixtures £45, stock optional; genuine. 16/24, Office of this Paper.

NET profit £800 per annum; books open to buyer; the returns are about £3,000; suburb of large Yorkshire town; price £2,000; applicants must enclose references as to ability to find cash or security. "Yorks" (20/320), Office of this Paper.

WHOLESALE Druggists' Sundries.—Business in City for Sale under exceptional circumstances; profit £400 to £500; rent £50. Apply to W. Ewart Craigen, Cromwell House, Fulwood Place, Holborn.

£160, and Stock at Valuation.—Old-established (68 years); East London; Retail; large double-fronted corner shop; nice house; rental £40 and taxes; returns this year average nearly £12 10s. weekly, without Insurance; also a big Panel available; £436 Insurance (additional) made last year. Young, 73 West Ferry Road, London, E.

SALES BY TENDER.

BY ORDER OF THE EXECUTRIX.
RE THE LATE MR. W. HARRIS-JONES.

MESSRS. ORRIDGE & CO. are instructed to offer by Tender, as a going concern, the Chemist's Business situate at The Promenade, Great Malvern. The returns are between £800 and £900 per annum (formerly £2,000), at very good prices, comprising mainly of Dispensing and Family Retail trade, including own Proprietaries. The premises include a splendid house of 12 rooms and stores, with private entrance, and every convenience for sub-letting if desired.

The shop has double front, is attractive, well fitted, and fairly stocked.

Orders to view, particulars, and forms of Tender may be obtained from Messrs. Orridge & Co., 56 Ludgate Hill, E.C.

AGENCIES.

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A GENTLEMAN in Bombay, with several years' experience in the Drug and allied trades, and a few years in India, is open to act as resident Representative in lines to suit Bazaar trade; he will be pleased to hear from any firm not at present represented, or from those who have never ventured their wares on the Indian market; why leave this profitable business to the Japanese? Apply for particulars to "Opportunity," (16/23), Office of this Paper.

AGENTS wanted (Chemists only) for series of smartly packed Medicinal and Toilet Preparations, bearing at least 100 per cent. profit on cost (guarantee maintain rate); showcards free; all goods returnable; only one agent for populations up to about 30,000. Apply for particulars, giving Wholesale house for reference, to Winton Medicine Co., 1 City Road, Winchester.

BUSINESSES WANTED.

CHEMIST wishes to Purchase at once, for cash, a good-class Business returning from £800 to £1,500 per annum, and with good scope; reference given. "Genuine" (21/34), Office of this Paper.

WANTED, a good Business in or near Liverpool; neglected one not objected to if in good position; banker's reference given, and able to take over at once. "Chemist," c/o 14 Hothfield Road, Seacombe, Cheshire.

TO LET.

A WELL-ESTABLISHED Chemist's Shop, nicely fitted, to be Let; good position in well-known suburb; low rent; fine opportunity for beginner. Apply, 249/34, Office of this Paper.

CHEMIST'S Shop (old-established) to Let, in the Kensington district; well fitted and comprising shop, good house accommodation, and cellars; small garden; rent £90. Apply, Willmott's, Auctioneers, 65 Goldhawk Road, W.

FOR SALE.

GOOD second-hand National Till for Sale: sales printer and self-totaller. Write, "W. C.," 19 Clifford Road, Hermit Road, Canning Town, E.

MORTARS and Pestles complete: Wedgwood, Nos. 1, 2, and 5. half Maw's price; old marble, 8 in. diameter inside, 4s.; bell metrl, 1/2 gall., weight 41 lb., 20s.; iron, 1 pint, 6 in. diameter, 2s. 6d.; circular marble slab, 1s.; 60 shop rounds: 40-oz. N.M., 18 W.M., 6d. each; brass beam scales, 5s.; French balance, 2s. 6d.; American balance, weighs at 1/5 gr., in box, 10s. 6d. Lockyer, Chemist, Deptford.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

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NATURE OF ADVT	REPLIES
MANAGER	12
QUAL. ASSISTANT	9
QUAL. MANAGER	8
ASSISTANT	8

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

BEDFORD.—Unqualified Assistant (lady or gentleman) required immediately: hours of business 8.30 to 8 p.m., 1 p.m. Thursdays, 10 p.m. Saturdays. State full particulars and salary required (outdoors), E. Murray Carruthers, Chemist, 31 St. John's Street, Bedford.

BIRMINGHAM.—Wanted, qualified Chemist who is looking for a permanency: hours of business 56: must be good Window-dresser and Counter hand; one with knowledge of Photography preferred; early prospect of advancement; good salary to the right man. Send fullest particulars in first letter to Izon, Chemist, High Street, Aston, Birmingham.

BIRMINGHAM District.—Assistant (lady or gentleman) in Light Retail and Dispensing business; easy hours: no Sunday duty. Apply, stating full particulars of experience, salary required, etc., to 20, 19. Office of this Paper.

CLIFTON, BRISTOL.—Wanted (at once), unqualified Junior for Laboratory and Retail. Apply, stating age, experience, and salary required, and enclose photo, to Giles, Schacht & Co.

EAST LANCS.—Qualified Manager required for Light Retail and N.H.I. Dispensing; easy berth; short hours, and no Sunday duty; elderly man not objected to. State full particulars to 18/29. Office of this Paper.

GRIMSBY.—Qualified Branch Manager required; active, capable man; easy berth; outdoors; no Sunday duty; short hours; good salary to right man. Apply, stating age, height, experience, and salary required, enclosing photo (returned), to Barkers (Exors.), 9 Grimsby Road, New Cleethorpes, Lincs.

LEEDS.—Unqualified Junior for Light Retail and Dispensing. Apply, with full particulars, experience, references, etc., Reinhardt & Sons, Ltd., 7 Queen Victoria Street, Leeds.

LINCOLNSHIRE.—Manager for Country Pharmacy wanted; agricultural district; must be good Dispenser, energetic and trustworthy, with good appearance and address; unfurnished house and garden if married; qualified or unqualified; state salary required. Full particulars, with references, and when disengaged, to "Country" (20/23), Office of this Paper.

LONDON.—Unqualified Assistant required for high-class business; comfortable berth and progressive salary; permanency. "Chemicus" (16/29), Office of this Paper.

LONDON.—Elderly qualified man required, mostly for Dispensing; easy hours; work light; state when at liberty. 18/207, Office of this Paper.

LONDON, N.—An experienced Assistant, also Junior or Improver (in- or out-doors), also an Assistant two or three evenings weekly. Apply (letter only), stating experience, names of references, when disengaged, and salary expected in each instance, "Chemist," 82 Bagston Road, Stoke Newington, N.

LONDON, N.W.—Assistant required in good-class business, either whole or part time. Usual particulars to "Naphthol" (20/2), Office of this Paper.

LONDON, S.E.—Wanted, qualified Assistant from October 25 to November 10; hours 9 a.m. to 5 p.m., Thursdays 1 p.m.; no Saturday or Sunday duty. Apply, stating terms, to "Optics," 12 De Crespigny Park, Denmark Hill.

LONDON, S.E.—Unqualified Assistant wanted for small Drug Store, part or whole time, to assist lady manager in absence of principal. Apply, personally if possible, Drug Store, 160b Trundley Road, Deptford. Closed from 2 to 4 in the afternoon and at 1 o'clock on Thursdays.

LONDON, S.E.—Qualified Assistant (outdoors) for Dispensing and Photographic business. Apply to A. Goldthorpe, M.P.S., 70 Herbert Road, Plumstead, S.E.

LONDON, S.E.—Required by a firm of Chemists, the services of a lady Assistant; stock and bookkeeping. Apply, stating full particulars, age, experience, salary required, and when disengaged, 19/23, Office of this Paper.

LONDON (S.W. Suburb).—Assistant (outdoors) for Dispensing and Retail business. Please state age, references, salary required, and experience to C. J. G. Bunker, 30 York Street, Twickenham.

LONDON, S.W.—Part-time Assistant wanted for General Retail and N.H.I. Dispensing; afternoon and evening daily, or three or four times per week. Send full particulars, or call, Enness, Pharmacist, 91 High Street, Wandsworth, S.W.

LONDON, S.W.—Experienced Dispenser required: outdoors; hours of work approximately 8.45 to 6 p.m., and no Sunday duty. Apply, by letter, with full particulars of past experience, and salary required, to "L. J.," 1,153, Sells' Advertising Offices, Fleet Street, E.C.

LONDON, W.—Assistant (unqualified) wanted on October 26: must be a good and reliable Dispenser; salary £2 10s. per week (outdoors). James Garner, 106 High Street, Kensington, London, W.

LONDON, W.—Qualified Manager required: must have had good experience, and be energetic; plenty of scope for ability and earnestness. "West" (18/270), Office of this Paper.

MANCHESTER.—Qualified Branch Manager, also Junior or Improver. State age, experience, and salary required in each case, R. Needham, Chemist, Stalybridge.

MANCHESTER.—Qualified Assistant. State age, height, and full particulars, references, and salary required (outdoors), Jeans, 151 Oxford Road, Manchester.

MANCHESTER.—Messrs. Blain & Hankinson, Pharmacists (formerly Woolley's), 69 Market Street, have vacancies for a Junior qualified Assistant and an unqualified Junior or Improver; short hours: no Sunday duty.

OXFORD.—Reliable Assistant wanted for best-class, old-established Family business in best position; outdoors; moderate hours; no Sunday duty. State salary required, references, experience, height, etc., and enclose photo, to W. H. Pearson, Chemist, 29 and 30 Cornmarket Street, Oxford.

PUTNEY.—T. Jones & Co., 5 Putney Hill, require an Assistant, age about 23-24, who has been accustomed to good-class Dispensing business; outdoors; applications from qualified ladies entertained. Apply to Mr. Amore.

SHEFFIELD.—Unqualified; outdoors; lady or gentleman; knowledge of Photography a recommendation; Cash business. Please give full particulars, age, experience, etc., and enclose photo, H. G. Williams, 118 The Moor.

SOUTH OF ENGLAND.—Assistant required; experienced; permanency, with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SURBITON.—Messrs. Chas. Lowe & Co. require a Junior Assistant or Improver; excellent opportunity to acquire sound training in Dispensing and Retail; liberal salary; indoors or outdoors. Apply, giving full particulars, to Mr. James Green.

WESTON-SUPER-MARE.—Indoors, in select Dispensing business, active, capable Junior. Send photo and full particulars of experience and salary required, Wing, 19 Walliscote Road, Weston-super-Mare.

WEYBRIDGE.—Reliable Assistant (outdoors) for good-class Dispensing business. Send full particulars as to age, height, experience, references, and salary required, also enclose photo if possible, E. T. Neathercoat, Pharmaceutical Chemist, Weybridge, Surrey.

WINCHESTER.—Wanted, unqualified Assistant; outdoors; moderate hours; no Sunday or Bank Holiday duty. Age, height, and particulars of experience, and photo, to Eldred & Inge, Winchester.

A RELIABLE Assistant wanted for old-established Country business; must be a quick and accurate Dispenser; one seeking permanency preferred; outdoors. Apply, with full particulars as to age, salary required, references, etc., to Moacham, Chemist, Ledbury, Herefordshire.

ADVERTISER would like to meet with middle-aged or not too elderly qualified Pharmacist; one retired, but still conversant with present-day business, who would be agreeable to take charge, single-handed, one day weekly from 9.30 to 4, of small Dispensing, Retail business, no Insurance, in Hampstead, N.W. Apply, 18/15, Office of this Paper.

A N Assistant for good Country business; no Sunday duty; good salary. Full particulars to F. Fresson, Pharmacist, Stevenage, Herts.

A N Assistant Dispenser (Part-time) required at once; salary £65 per annum. Apply, by letter, to the Secretary, Throat Hospital, Golden Square, W.

ASSISTANT; not under 30; must have had first-class experience, Counter and Window-dressing, Photography; short hours; outdoors. Full particulars, with photo, first letter, Hicks & Co., Chemists, Cardiff.

ASSISTANT, accustomed to West-End Dispensing. Apply, Rouse & Co., 12 Wigmore Street, W.

ASSISTANT wanted for good-class suburban trade; suit married man; outdoors; no Sunday duty. Apply, Lewis & Burrows, 146 Holborn Bars, E.C.

BALKWILL & CO., Plymouth, require capable Assistant; one accustomed to good-class Dispensing business; outdoors.

BEVAN & SON, Pharmacists, Harwich, Essex, require reliable Assistant, used to Dispensing; two kept. State salary (in- or out-doors), age, experience, and references. Lady used to a Pharmacy or middle-aged gentleman, or active Partner would be entertained.

CAPABLE Assistant required about middle of November; good Dispensing experience essential; lady or gentleman; outdoors. Apply, A. Roberts, 171 High Street, Acton, W.

IMPROVER, Junior (who has just finished apprenticeship) or lady Assistant for good-class Pharmacy; comfortable home and easy hours; outer suburb of London. Apply, stating age, height, and experience, and salary required, and if possible enclosing photo, to Hutchin, Pharmacist, Loughton.

JUNIOR Assistant wanted (immediately), for Dispensing and Counter work. Apply, stating experience and references, to T. C. Binks, Chemist, Castleford, Yorks.

JUNIOR; indoors; good-class Dispensing; easy hours; half an hour off every day. State salary required, A. Cartwright, Chemist, Henley-on-Thames.

JUNIOR Assistant for Retail and Dispensing; unqualified; outdoors. Apply, with usual particulars, Deighton & Smith, Pharmacists, Bridgnorth.

LADY Assistant wanted; some Counter experience preferred, but not essential; easy hours; good-class business. State age, height, salary required, experience, and references to H. Barnett, Chemist, Hythe, Kent.

LADY Dispenser (outdoors) for good-class Retail business. Apply, with particulars of experience, salary required, to C. A. Maries, Pharmacist, Waterloo, Liverpool.

LOCUM, qualified, for one month; trustworthy; salary required (in- or out-doors), with references and age; also Part-time Assistant for evenings. Apply, J. Johns, Chemist, Tilbury Dock.

MANAGER, qualified; suit married man over military age; good-class Retail and Dispensing; reasonable hours; Assistant kept; pleasant town; first-class credentials required. Photo and salary, Parkes, 109 Musters Road, Nottingham.

PART-TIME Assistant required for Thursdays and Saturdays, and Mondays if possible, from 2 to 8 p.m. in good-class Dispensing business. W. Ive, 221 High Street, Kensington.

QUALIFIED Manager for Country business in Agricultural district, with scope for large turnover; successful business builder will find comfortable, remunerative permanency; opening for Dentistry and Optics; salary, good commission, and house. Apply, with references and full particulars as to age, salary required, and photo (if possible), to 12/17, Office of this Paper.

QUALIFIED.—Young Assistant wanted; Dispensing (good class); easy position; comfortable home. Carte-de-visite, references, and salary asked to Edward Maish, Cotham Brow, Bristol.

QUALIFIED Manager wanted; elderly man preferred; light work. Apply, with particulars, to Wade, Chemist, Llanelly.

QUALIFIED Assistant required by the Lancashire Drng Co., Ltd., Burnley; permanency; send particulars, salary required, etc.

QUALIFIED Assistant, age about 50, for permanent and comfortable berth in the Midlands, near Birmingham. State age, salary required, and when at liberty, "Midland" (18/27), Office of this Paper.

QUALIFIED or unqualified Assistant; must be accurate Dispenser; sleep on premises. Apply, with full particulars, to A. Milne, Montpellier, Cheltenham.

QUALIFIED young Chemist required; capable and energetic, quick, neat, accurate Dispenser; good Window-dresser and Counterman; one with enterprise, energy, and initiative, for a good working-class trade; to the right man this berth offers exceptional opportunities. State full particulars, in confidence, 256/72, Office of this Paper.

QUALIFIED Chemist, either lady or gentleman, for middle-class business in fair locality; hours easy; permanency; must be quick, reliable, and capable of taking charge. Reply, stating salary required, to E. Tibbles, 181 Whitham Road, Sheffield.

SENIOR wanted for Light Retail, Dispensing, and Photographic trade. State experience and full particulars to Jno. H. Smith & Co., Chemists, Newark.

PHARMACEUTICAL SOCIETY OF IRELAND.

THE Council will, on November 9, 1915, proceed to the appointment of Examiners to conduct Examinations as under-mentioned:

- (a) The Materia Medica and Botany Division of the Pharmaceutical Licence Examination;
- (b) The Pharmaceutical Assistant Examination; and
- (c) The Registered Druggist Examination.

Full particulars may be obtained from the Registrar, with whom applications should be lodged by the 1st proximo.

ARTHUR T. FERRALL, Registrar.

67 Lower Mount Street, Dublin, October 19, 1915.

UNQUALIFIED Assistant with fair experience in Dispensing and Counter work; in- or out-doors. If writing, state age and salary expected to G. Dauncey, Nugent Terrace, St. John's Wood.

UNQUALIFIED Assistant (outdoors) for Light Retail and Dispensing; must be quick and reliable. Full particulars, salary required to Day, Pharmacist, Saltash, Cornwall.

UNQUALIFIED Assistant wanted, about 25; Counter and Dispensing, good class. State salary and experience, Vince, Pharmacist, Lancaster.

UNQUALIFIED Assistant; preferably ineligible for the Army; short hours; no Sunday work; high-class Dispensing and Counter work; in Store business. Apply, Cater, Stoffell & Fortt, Ltd., Bath.

UNQUALIFIED Assistant required. Apply, stating full particulars, to Neve, 10 Victoria Parade, Norbury.

UNQUALIFIED Assistant with good all-round experience in Counter work, Dispensing, and Photographics required for quick London business; elderly man not objected to if active. Apply, stating full particulars of experience and salary required, etc., to 19/4, Office of this Paper.

UNQUALIFIED Assistant, unsuitable for military service, not over 50, to take charge of small branch near Oxford Street, W. Apply, stating age, wages, and experience, to 9/40, Office of this Paper.

WANTED, Dispenser and Bookkeeper for medical man in Crewe. Apply, giving full particulars, to Dr. Gray, Homecroft, Crewe.

WANTED at once, elderly or semi-retired registered or qualified Assistant; healthy position; duties light; short hours; close Sundays, 1 o'clock Thursdays; salary £2 to commence; splendid chance in every way for steady, obliging man. Apply, "Nervoids" (15/28), Office of this Paper.

WANTED at once, Junior Assistant for Retail department. Reynolds & Branson, Ltd., Leeds.

WANTED at once, owing to death of principal, qualified Manager for quick Country business; elderly man not objected to. Apply, with full particulars, to J. F. Fowle, Chemist, Holbeach, Lincs.

WANTED, qualified Chemist; lady or gentleman; middle-aged; must be good Dispenser; little Counter work. Apply, 314 Commercial Road, London, E.

WANTED, unqualified Assistant for Counter and Dispensing; good opportunity. Reply, giving full particulars and salary required, to W. Bates & Co., Ltd., 50 Oxford Street, Southampton.

WANTED, good all-round Assistant for a Country business; easy hours; in- or out-doors; if latter, salary £2 weekly. State full particulars; good references essential. Apply, Parsons, Chemist, Ilminster, Somerset.

WANTED immediately, capable Junior or Improver; suit Part-time. Send all particulars, photo, etc., Holden, Pharmacist, Westwood, Oldham.

WANTED, a gentlemanly Assistant as Junior (indoors), for good-class Pharmacy; assistance willingly given to one studying for Minor. Apply, stating usual particulars, and if possessing knowledge of Photography, to S. A. Milbank, F.R.M.S., Chemist, Bishop Stortford.

WANTED at once, good qualified lady or gentleman, for a good business in East London; must be reliable and have good references; elderly gent not objected to; liberal remuneration. Massinghams, Ltd., 34c Green Street, Bethnal Green, E.

WANTED, unqualified Assistant; good salary. Apply, William Fox & Sons, Ltd., 109, 111, 113 Bethnal Green Road.

WANTED, elderly qualified Chemist, or one who wants to have an easy berth: short hours; high-class South Coast watering place; house over the shop if necessary. Please state full particulars, Simpson, 6 Wilbury Crescent, Hove.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

LONDON, S.W.—Pill hand wanted; accustomed to private formulas. Write, with full particulars of experience, to "L. J.," 1,152, Sells' Advertising Offices, Fleet Street, E.C.

A FIRM of Manufacturing Chemists and Wholesale Druggists in the Manchester district require the services of a competent Laboratory and Warehouse Assistant (male over military age or qualified female). Apply, giving age, references, full details as to previous Wholesale experience, and wages required, to 9/10, Office of this Paper.

A WHOLESALE house are wanting a really good man to Manage Manufacturing Perfumery department; must have practical experience of making up preparations, Hair Washes, Creams, Powders, Pomades, Cosmetics, etc. Apply to 10/32, Office of this Paper.

A CTIVE Representative; good connection; introduce new Specialities Chemists, Stores, etc.; also Agents commanding Shipping connection. 16/34, Office of this Paper.

A N Analytical Chemist, who has had experience in the Analysis of Opium and other natural Drugs, is required in a public laboratory in London. Applications, stating age, qualifications, experience, and salary required, should be addressed to "X.," care of Messrs. George Street & Co., Ltd., 30 Cornhill, E.C.

C HINA Importers require expert market Salesman for Albumen, Yolks, Oils, Tallow, etc. Write, stating experience, "S. M." (7/63), Office of this Paper.

CLERK wanted, experienced in Invoicing and Shipping, for export department of South London Wholesale Druggists; good opening. Write, 9/38, Office of this Paper.

COMPETENT Counter hand wanted in a London Wholesale Druggists; one with both Wet and Dry experience preferred; wage to commence 32s. 6d. Apply, stating full particulars of experience and age, to 18/7, Office of this Paper.

COUNTERMEN, experienced Wets and Dries; also Despatch Clerks; good wages and permanency for suitable men. Apply, Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close.

DRUGGISTS' Sundries.—Assistant with knowledge of Sundries and Surgical Instruments required for City warehouse. State age, experience, and wages required, Sundries Department, Dakin Bros., Ltd., 82 Middlesex Street, Bishopsgate, E.C.

DRY Counter.—Experienced men required at once. Apply, Burgoyne, Burbidges & Co., East Ham.

I NVOICE Clerk required by Wholesale house, with knowledge of prices. State experience and salary required to 7/61, Office of this Paper.

JOHN RICHARDSON & CO., LTD., Leicester, have at present vacancies for a Despatch Clerk, Wet-room hands, and a Representative for Leicester and suburbs; permanent situations; applicants must be ineligible for military service. Please state full particulars as to experience and suitability, also remuneration asked.

L ABORATORY Assistant wanted by well-known provincial house; previous experience essential; need not be qualified; permanency and good wages. Apply, with full particulars, to "Ergot" (8/69), Office of this Paper.

M AN thoroughly experienced in Tincture-making required for a London house; good wages to the right man. Apply, 1/31, Office of this Paper.

P HARMACEUTICAL Chemist required in Wholesale department of large high-class firm of Chemists in the Provinces; would be required for Testing Drugs and Laboratory Preparations, and for Experimental work. Mention age, salary desired, and customary information. "S. J." (19/35), Office of this Paper.

P RACTICAL man for Manufacturing Laboratory, with knowledge of Dental Powders and Pastes. State age wage, and experience, to Sangers, 42a Hampstead Road, London, N.W.

R EQUIRED, Manager of Drug Department in City Wholesale house; must have full knowledge of market. Send full particulars of past experience and references, stating salary required, to 2/22, Office of this Paper.

WANTED, at Dry Counter, experienced Packer of Tablets, Pills, and similar light goods; non-military age. Full particulars as to previous employment, salary required, "Merton," (22/2), Office of this Paper.

WANTED at once, Checker for Wholesale Druggists' Sundries house. Apply, stating age, past experience, wages required, 9/45, Office of this Paper.

WAREHOUSEMAN (Under) required by London Wholesale Druggists; accustomed to checking and despatching goods; wages 35s. State age, experience, etc., to "A. Z." (16/32), Office of this Paper.

WET Counterman's Assistant required; permanency; good wages. Apply, giving usual particulars, "Secretary," Timothy White Co., Ltd., Wholesale Druggists, Portsmouth.

YOUNG, energetic Traveller wanted in Druggists' Sundries Wholesale house, eventually beginner, of smart appearance; good salary and commission. Apply, full particulars, 9/16, Office of this Paper.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TE-MS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; **6d.** for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

AUSTRALIA.—Good Assistant, married or single, wanted to go out and take charge of a Pharmacy in New South Wales; good home and salary assured. All particulars to W. Morse Evans, Casino, Australia.

BOMBAY.—Assistant required at once for an old-established English firm; salary first year Rupees 300 per mensem, second year Rs. 325, third year Rs. 350; second-class passage paid out. Apply, stating age and qualifications, to "X. H. A. G.," S. Maw, Son & Sons, 7-12 Aldersgate Street, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; **6d.** for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.] RETAIL.

AS Assistant; qualified; take charge if needful. "F. B.," 9 Pepperhill, Shelf, Bradford.

ASSISTANT. unqualified, 22, requires permanent berth; used to quick Cash trade; Window-dressing, Counter, and Dispensing. Apply, S. J. Bulmer, 4 Clifton Place, Newton Bar, Wakefield.

ASSISTANT, Manager, or Locum: 50; abstainer; thoroughly experienced; disengaged. "J. S.," 4 Queen Street, Redcar.

BRANCH Manager or Assistant, unqualified (44), married, requires permanency; competent Dispenser, Prescriber; experienced in all Photography; good references; now disengaged. 19/33, Office of this Paper.

BRIGHTON.—Assistant; unqualified; 24; skilful Dispenser; N.H.I. Photography; good Counterman; married; permanency; highest local references. Apply, personally if desired, 14/1, Office of this Paper.

CLERK (age 30), in Wholesale, offers three evenings weekly to Retailer for experience and expenses; Central or South London district. 7/25, Office of this Paper.

DISENGAGED; unqualified; 20; used to brisk Retail and Dispensing; London or Birmingham. 16/25, Office of this Paper.

DISPENSER-BOOKKEEPER (lady), twelve months' experience, desires post with Chemist; Liverpool district. 16/31, Office of this Paper.

ELDERLY Dispenser (unqualified) desires post with Doctor; N.H.I. experience. "W. B.," 87 Century Road, Great Yarmouth.

ELDERLY Locum; disengaged; experienced; unregistered; abstainer; well recommended. "Prompt," 73 St. Andrew's, Uxbridge.

EXPERIENCED Window-dresser, energetic and thoroughly efficient, married, desires post as above; age 30; outdoors; travelling, or permanent entertained. Particulars, "Physic" (15/33), Office of this Paper.

EXPERIENCED qualified Manager and Buyer for multiple shops; capable organiser; Photography, Optics. 22/12, Office of this Paper.

HELP to Chemist: 9 till 5 p.m.; 42. "Disengaged," 55 Elm Road, New Malden.

HOSPITALS, Doctors, or Institutions.—Dispenser-Dentist. "Medicus," 90 St. Andrew's Road, Exmouth.

I AM getting now £250 a year as Buyer and Manager, and wish to improve my position; does anyone require a Manager with tact, modern methods, and capable of controlling staff; if so, what offers? 22/9, Office of this Paper.

JUNIOR; 21; rejected military service; seven years' experience; Midlands preferred; abstainer; good Dispenser; disengaged. Radford, 5 King Street, Alfreton.

LADY Dispenser (Hall qualification) wishes for Part-time (not evening) in or near London; very good references. 17/2, Office of this Paper.

LADY Dispenser (Hall qualification) desires post with Doctor or Institution; Birmingham or district. Miss Morris, 15 Charleville Road, Handsworth, Birmingham.

LADY Assistant; 20; 3 years' Counter experience, Toilets, Sundries, and Patents; good Saleswoman and Window-dresser; disengaged. "O. S.," 52 Highfield Road, Saltley, Birmingham.

LADY Dispenser and Bookkeeper (Hall), experienced, desires re-engagement; London or country. "Dispenser," 48 Perry Vale, Forest Hill, S.E.

LADY, with slight knowledge of Dispensing, requires Part-time position; Coventry or Birmingham. 20/15, Office of this Paper.

LADY Dispenser wishes for Part-time post with Doctor or Chemist in or near Ipswich; moderate salary. 20/11, Office of this Paper.

LADY (30), unqualified, used to putting up stock, 15 years in present and only situation, would work under Dispenser; 8 hours daily; City or North London preferred; good references. 19/37, Office of this Paper.

LOCUM tenens; qualified; 40; capable, reliable, and trustworthy. "B.," Church Road Pharmacy, Weston-super-Mare.

LOCUM work undertaken. Hepworth, Chemist, Loughborough.

MANAGER or temporary, with a view to succession; Liverpool or district. "Chemist," c/o 14-Hothfield Road, Seacombe, Cheshire.

MANAGER or Senior; qualified; Englishman; recent Continental experience; speaks French fluently; well up English Pharmacy; thoroughly capable and absolutely reliable; best references. 19/5, Office of this Paper.

MANAGER; age 44; ineligible for Army; energetic, with plenty of initiative; thoroughly experienced in every branch of the trade; would entertain acquiring Partnership or a business; must be a post where there is every opportunity of earning a good salary. 20/8, Office of this Paper.

MANAGER or Assistant; qualified; 24; married; Scotsman; excellent references; disengaged immediately; North or Midlands preferred. J. H. Campbell, c/o Roberts, Chemist, Abergavenny.

MANAGER wants situation; experienced; used to up-to-date trade; good references. State salary offered, etc., to 19/14, Office of this Paper.

MANAGER; qualified; 5 ft. 10½ in. height; age 38; married; excellent references. 21/18, Office of this Paper.

MANCHESTER, District.—Unqualified Assistant (lady) desires situation; experienced. 12/9, Office of this Paper.

PART-TIME; gentleman; experienced Secretary; qualified Dispenser. "Permanency," 50 Woodside Park Road, N.

PART-TIME desired in London by Pharmacist studying medicine; evenings, Friday mornings, and Saturdays. Cheater, 10 Prideaux Road, Clapham.

PERMANENCY, Locum; 42; Counter, Dispensing, Photography; unqualified. Howes, 15 Hexthorpe Road, Doncaster.

PHARMACIST requires Branch Management or Locum; disengaged; 18 years' varied experience. Dispensing, Counter, Photographic; excellent references. "M.P.S.," 22 Sherwood Street, Fallowfield, Manchester.

QUALIFIED; as Manager or Assistant; Birmingham district preferred. Smith, Stone Street, Oldbury.

QUALIFIED; 24; good experience and references; disengaged November 1. H. R. Evans, 20 Rawling Street, S.W.

QUALIFIED Dispenser (lady) desires re-engagement in London or district; Hospital and Institution experience; Bookkeeping. P. E. Hill, 43 Nightingale Road, Clapton, N.E.

QUALIFIED, 7 years' experience, seeks permanency in good-class Dispensing business; Locums considered; excellent references. Stuart, 4 Melcombe Place, N.W.

QUALIFIED; elderly; single; best experience; moderate salary; reasonable hours; London. "B. P.," 228 Westbourne Grove, W.

QUALIFIED; middle-aged; energetic; married; abstainer; as Manager; live on premises; country preferred; disengaged. State salary, terms, etc., 20/14, Office of this Paper.

QUALIFIED; Hospital or Dispensing; first-class experience; hours 9-6, Saturdays 9-1. "Caffeine" (17/36), Office of this Paper.

QUALIFIED; any Dispensing duties; disengaged; moderate hours and salary. "Pharmacist," 45 Bridgman Street, Farnworth, Lanes.

QUALIFIED Assistant, with 8 years' experience and excellent references, desires berth in Westcliff or Southend district. E. A. Wiseman, 30 Burney Street, Greenwich, S.E.

QUALIFIED; 31; disengaged; Branch Manager or Assistant; abstainer. "Pharmacist," 436 High Road, Streatham.

QUALIFIED; 29; tall; Manager or Senior; West-End and provincial experience in high-class Pharmacies; disengaged shortly. Full particulars, hours, salary, Williams, 3 Park Crescent, Torquay.

QUALIFIED Locum; elderly; good references. J. Green, 23 Victoria Road, Edmonton, N.

QUALIFIED Locum for week commencing 25th; Manchester district. "Pharmacist," 485 Ashton Road, Oldham.

QUALIFIED; 39; disengaged; Locum or permanency. "Pharmacist," 10 Finborough Road, West Brompton.

QUALIFIED; married; 33; all-round experience; disengaged shortly; Midlands preferred. 19/40, Office of this Paper.

QUALIFIED Chemist, elderly, married, having disposed of his business, is open to accept for short period position of Manager of small Branch; country preferred. 21/28, Office of this Paper.

SATURDAY Evenings.—Five experienced Assistants (Students) require employment as above; S.W. district. "R. S.," 47 Sandmere Road, Clapham.

TWO or three evenings; unqualified. Busby, 10 Elmsdale Road, Walthamstow.

UNQUALIFIED; 46; 20 years' experience. 10 Hospital; good Prescriber; knowledge Photography; speaks French. "Dispenser," c/o Carré, Chemist, Guernsey.

UNQUALIFIED; married; 23; good all-round experience; permanency preferred. 54 Stacey Road, Cardiff.

UNQUALIFIED; thoroughly experienced and reliable; permanency desired; married, no family; disengaged October 26. Taylor, 56 Rectory Lane, Tooting Bec, S.W.

UNQUALIFIED (28), married, 12 years all-round experience, with Dispensing, wants permanency with progressive salary; immediately. "Sodium," 50 Dudley Street, Wolverhampton.

UNQUALIFIED; abstainer; tall; prize Photographer; smart, energetic; age 35; not eligible Army; present in London; last berth 8 years. "Scots" (17/40), Office of this Paper.

UNQUALIFIED Assistant; 27; married; active; Dispensing experience, N.H.I., Photography. State hours and salary (Western Counties preferred), "Aspirin," 11 Church Road, Upper Norwood, S.E.

UNQUALIFIED; experienced; General, Retail, or with Doctor; permanency; 27; married; London or near. Address, "Statim B.," 40 Woodside Court Road, near Croydon.

WHOLESALE.

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ADVERTISER (32) desires change; many years' West-End experience, Wholesale and Retail; energetic and of proven ability; well recommended; requires position as Representative, home or abroad. 18/4, Office of this Paper.

ANALYST, with good knowledge of Chemistry of Foods and A Drugs, wants a change; over three years with a public Analyst; City or West End preferred; excellent references; salary from £100. 20/3, Office of this Paper.

CHEMIST; 38; Laboratory and General Manager; confidential man; control of large staff and output; free by arrangement. "Balsam" (18/28), Office of this Paper.

FOREWOMAN desires engagement in a Wholesale house; years of experience in Labelling, Capsuling, etc.; good disciplinarian. 18/6, Office of this Paper.

PERFUMER (Manufacturing), with many years' practical experience in the manufacture of Perfumery and Toilet Articles, desires situation in England or abroad; can supply recipes; good references. 15/6, Office of this Paper.

PILLS and Tablets; many years' all-round experience; good organiser. "Statim" (18/21), Office of this Paper.

SOUTH Wales, West of England, and part of Midlands.—Experienced, energetic Traveller, with a well-established, reliable connection among first-class Chemists and Stores, desires an additional Agency in a Proprietary line on above ground; produce excellent references; interview if desired. "Welshman" (16/39), Office of this Paper.

SURGICAL Rubber Goods.—Advertising man, good publicity experience (Manufacturing and Wholesale), desires change; undertake Travelling for exploitation of specialised goods. 21/20, Office of this Paper.

TRAVELLER, qualified Chemist, experienced, energetic, and successful, with excellent selling record and connection, requires engagement by good Drug or other house; intimate knowledge Drug and allied trades, and first-class references; disengaged. "Vivum" (12/14), Office of this Paper.

TRAVELLER, calling upon Chemists, with a live connection of 600 clients in the provinces, is open for an additional line; commission. 9/22, Office of this Paper.

TRAVELLER.—Really capable and experienced man, with well-established connection in provinces, seeks re-engagement with reliable firm. 19/15, Office of this Paper.

TRAVELLER, well known, with connection provinces, seeks re-engagement with good reliable firm. 22/11, Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies, or elsewhere abroad.

YOUNG Scotch Pharmacist desires Managership or other responsible position abroad, preferably Colonies; disengaged January. (16/26), Office of this Paper.

Dose Tables for Students of Pharmacy.

NEW EDITION.

A TWENTY-EIGHT page booklet showing the adult doses in ordinary cases of the principal medicinal agents. The new Edition includes the doses in Imperial and Metric terms side by side; also contains Metric equivalents for Dispensing and a complete table of atomic weights, comprising the B.P. figures, and the International Committee's latest pronouncements (O=16 and H=1). The booklet measures 4½ in. by 2½ in., and can be carried in the vest pocket. To be obtained from "The Chemist and Druggist," 42 Cannon Street, London, E.C., for FOUR PENNY STAMPS PER COPY.

MISCELLANEOUS.

MEDICAL Literature.—A fee of 10 guineas is offered for a Brochure, subjects, the breast-feeding of infants and a means of insuring it. Particulars on application to "H. W.," c/o E. T. Pearson & Co., Ltd., Manufacturing Chemists, London Road, Mitcham, Surrey.

SECOND-HAND Drug Fittings, cheap, all sizes.—Silent Salesman, Glass Counters, Wall-cases, Window-enclosures, Screens, Iron Safes and Partitioning; Shop-fronts and Glass Facias a speciality. Farley's, Chemists' Shopfitters, 227-227a Old Street, E.C.

SECOND-HAND SHOW-CASES AND SHOP-FITTINGS.—5-ft. Piano Wall-case, £10 10s.; Perfume Case and Desk, Mirror back and Glass Shelves, 58s.; Marble-top Sponge-case, 75s.; 4-ft. Silent Salesman Case, 3 ft. high and 2 ft. wide, 2 Plate-glass Shelves, £7 10s.; 6-ft. Dispensing Screen and Counter, Mirror centre, £7 15s.; hundreds of other bargains. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

BEST cash price paid for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E

CHEMIST'S Fittings.—Second hand; large stock of high class Drug Fittings, Piano Wall Cases, Dispensing Screens and Counters, Glass Counters, Counter Cases, Perfumery Cases and Desks, Counter Drawers; absolute bargains; cheapest house for Window Enclosures, Mirrors, Glass Shelves, Modern Shopfronts, Improvements, etc.; plans prepared; estimates free. Mills' Shopfront, Shopfitting, and Glass Facia Works, 163-165 Old Street, London, E.C. Phone, London Wall 550.

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

TERMS

Minimum charge (including registration fee) of 1/- for six words or less; 2d. per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND DRUGGIST."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE.

"The Chemist and Druggist," 42 Cannon Street, London, E.C

Adalin, 1 or 2 oz. (9/34)	Guaiacol carb. (21/40)
Beta-cucaine hydrochlor, or lactate, any quantity (14/30)	Hydroquinone (19/27)
	Metol (19/27)
	Pot. bromide (21/40)

FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers:—

Acetanilid, cryst., $\frac{1}{2}$ lb. (20/18)	Methyl salicyl., 4 oz. (15/29)
Acid. acetosal. (19/27)	Metol Harff., 3 oz. (19/9)
Acid. tart. (19/27)	Opium, 1 lb. (19/9)
Agurin, 1 oz. (15/29)	Orthoform, 1 oz. (15/29)
Amidol, 1 oz. (15/29)	Papain (19/27)
Balsam Peru (19/27)	Pepsine (19/27)
Benzonaphthol, 4 oz. (15/29)	Phenacetin, 1 lb. (20/18), and 2 lb. (19/25)
Bismuth. salicyl., $\frac{1}{2}$ lb. (20/18)	Quinine, 100 oz. (19/9)
Gallie acid (19/27)	Silver proteinate and nuc-leinate (19/27)
Lithia carb. (19/27)	Trional, 1 oz. (15/29)
Lycetol caehets, 100 x grs. v. (15/29)	
Mesotan, 1 oz. (15/29)	

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

NEWTN'S, B.P. '98, "Art of Dispensing," etc. "L," 28 Sydney Street, South Kensington.

DRUGS AND CHEMICALS.

PHENACETIN comp. tablets, 5-gr., 12 oz.; what offers? Dunnet, Chemist, Falkirk.

WHAT offers? $\frac{1}{2}$ -cwt. case pure glycerin, unopened. Stead, Hopefield, St. Annes-on-Sea.

WHAT offers? 2 lb. pot. iodid.; 1 doz. Rendell's pessaries; $\frac{1}{2}$ oz. atropin sulph.; 16/9, Office of this Paper.

12 oz. phenacetinum, 12 oz. ferri quini. citras, 7 lb. mountain flax, 2 galls. ol. olive fine B.P. Brooks, 35 Thurstane Street, Bolton.

OFFERS wanted for 3ix. acid. salicylic.; 3xij. salicine; 3xi. salol; 3j. caffein citras; 3vij. paraldehyde; 10 galls. acid. carbolic, dark; 28 lb. potasste carb.; gross 4-oz. liquorice-powder tins. Griffin, Pharmacist, Cockermouth.

BEST cash offers: 100 oz. quinine; 2 lb. pot. brom.; $\frac{1}{2}$ cwt. arsenic. pulv.; 14 lb. Spanish-juice sticks; 1 $\frac{1}{2}$ lb. mercury; 8 oz. phenazoum; 2 oz. phenacetin; 8 oz. chloral hyd.; 1 oz. morph. hyd.; 2 drs. morph. sulph.; 1 lb. lin. methyl sal. co.; 2 Winch., 9 32-oz. bottles A1 cod-liver oil; 3 doz. each 6-oz., 12-oz., emulsion (Baiss, new); 6 10s. 6d. corvusine; papine (Battle); neboline (No. 21); 10 200's, 4 500's saccharin tabs.; quantity cyanide gauze (6-yd. packets); various splints, crutches (doctor's surgery outfit). F. J. Boardman, Canol-Dre Pharmacy, Abergel, N. Wales.

OPTICAL AND PHOTOGRAPHIC.

70 microscopic slides, 2s. dozen, 10s. lot; approval, exchange. Liutin, 86 Freedom Road, Sheffield.

PROPRIETARY ARTICLES.

WHAT offers? 9 doz. each size 2s. and 3s. 6d. Dr. Hale's Vin. Sanguis. 16/30, Office of this Paper.

SHOP FITTINGS.

GLOBE lamp for front shop for sale, a bargain. Cooke, Gorey, Ireland.

DE GRAVE'S 1-lb. brass counter scales, complete. Dear, 111 Royal Parade, Eastbourne.

MISCELLANEOUS.

WHAT offers? Gledhill till, with coin exhibitor; full-size water-bed, air-bed, and water-pillow. Kenuetts, Lee.

WANTED.

VIALS wanted. State quantity, sizes, and prices, Duck, Chemist, Cardiff.

ICDINE, sod. salicyl., pulv. canthar., pulv. opii, B.P. Boardman, Abergel, N. Wales.

$\frac{1}{2}$ doz. Squire's Companion to the B.P., old edition. 4/18, Office of this Paper.

LIQURICE wanted, broken or block. Samples, prices, 46 Cumberland Road, Acton.

EMULSIFYING machine. State maker, full particulars, and price, Price, Blackheath, Birmingham.

(ZONIA!! OZONIA!!! Advertiser will be pleased to hear from any Chemist having any Ozonia for sale. Write, stating quantity and price, Moore, 34 Duffield Road, Derby.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

Associations' Winter Session.

Birkenhead.—The annual meeting of the Birkenhead and Wirral Association of Pharmacists was held at the Association Rooms, Hamilton Street, Birkenhead, on October 14. Mr. F. C. Cooling presided over a good attendance. The election of officers for the coming year resulted as follows: Mr. F. C. Cooling, re-elected *President*; Mr. C. Woodfield Cooke and Mr. T. Stephen Jones, re-elected *Vice-Presidents*; Mr. E. G. Welton, re-elected *Treasurer*; Mr. John C. Caine, of 40 Upton Road, re-elected *Hon. Secretary*; Mr. A. J. Stones, *Reporting Secretary*. Letters were read from the Halifax Chemists' Association; from Mr. D. Roger Rowlands in reference to the proposed earlier closing shortly to come into operation; from Mr. Glyn-Jones, *re the P.A.T.A.*; and from Mr. Wallbridge regarding the Pharmaceutical Training Corps. A motion, in the name of Mr. R. G. Govier, proposing to alter the name of the Association to the Birkenhead, Wirral, and Wallasey Association of Pharmacists was carried. It was also decided to hold the annual meeting in July instead of in October. Mr. J. C. Caine presented a satisfactory Secretary's report, which was adopted. The Treasurer's report was presented by Mr. E. G. Welton, and was also satisfactory. The new Drug Tariff was then discussed and certain points in it were severely handled.

Brighton.—A meeting of the Brighton and Hove Association of Pharmacy was held at the Camera Club, Castle Square, on October 13, the President (Mr. C. G. Yates) in the chair. Referring to the frequent fluctuations in price of branded drugs in tablet-form, the Secretary intimated that he hoped to be able to furnish the latest current prices to any members who make inquiry respecting same. Consideration was given to the Report and Recommendations of the Drug Tariff Committee; and for the purpose of analysis and comparison the Secretary had obtained batches of a dozen or more prescriptions from different local chemists, from which the following facts were elucidated:

The actual cost of the drugs used by each chemist varied from 30 per cent. to 65 per cent.

Total cost of prescriptions priced by the present Tariff	£ s. d.
Total amount paid after the present discounting of 25 per cent.	3 13 0
Total cost of prescriptions priced by the proposed Tariff	2 14 9
	3 0 9

The outcome of the subsequent discussion was a general agreement on the principle of supplying the drugs at cost-price, with a further charge for the dispensing and establishment expenses, provided that the remuneration for the latter is adequate. The proposed establishment-fee was considered hopelessly inadequate for an area such as Brighton; it was suggested that the adoption of a sliding scale based on the size of population, rental, or rateable value would be more reasonable. It was also hoped that there would be some substantial improvement in the payment proposed under the new Tariff for dressings and appliances.

C.A.A.—The first meeting of the session of the Chemists' Assistants' Association was held at the headquarters, 17 Blombury Square, on October 14, the President (Mr. W. Roberts) in the chair. After refreshments had been handed round the President gave an inaugural address in which he referred to the circumstances under which the session had opened, and to the decision of the Council to hold monthly meetings, a policy which had proved very successful in the previous session. Some reference was made to matters of pharmaceutical interest, including the status of pharmacists in the R.A.M.C., and the President concluded by exhorting the members to attend as many meetings as possible. Mr. F. W. Crossley-Holland tendered the thanks of the members to the President for his address, and the evening then took the form of a smoking concert.

Chemists' Dental Society.—At a meeting held in London on October 20 it was agreed that, on account of the special attack made on dental chemists in the draft Dental Bill of the British Dental Association, the Society should retain its independent position. The proposed amalgamation with the National Dental Corporation will not therefore take place. The resolution which was passed is as follows:

"In view of the attacks upon dental chemists in the recent draft Dental Bill, it is not expedient for the Chemists' Dental Society to amalgamate with any body of men who are not qualified chemists."

Dublin.—The following officers of the Dublin Retail Drug Association have been appointed for 1915-16: *President*, Dr. A. J. Barnes; *Vice-President*, Mr. G. McL. Lee (Laird & Co.); *Treasurer*, Mr. J. R. Middleton, J.P. (McMaster, Hodgson & Co.); *Hon. Auditor*, Mr. W. H. Ashmore; *Hon.*

Secretary, Mr. Victor E. Hanna, 70 Lower Mount Street, Dublin; *Committee*, Messrs. Barnes, White, Batt, Middleton, Digges, Lee, and A. O. Wells. The new President (Dr. A. J. Barnes, M.P.S.I.) entered the business just twenty years ago, and in 1900 took over the business in which he was then an assistant, and of which he is still proprietor. Although qualified in medicine, he has always leaned more towards commerce, and takes an active interest in drug-trade and pharmaceutical affairs. In 1909 he was mainly responsible for the founding of the Dublin Association. In 1910 he was elected to the Council of the P.A.T.A., and he is now one of the three Vice-Presidents of that body. Dr. Barnes has also filled the position of Examiner to the Pharmaceutical Society of Ireland.

Ealing.—The annual meeting of Ealing Pharmacists' Association was held on October 12 at the Chamber of Commerce, Ealing. The Secretary presented the annual report and financial statement, showing a balance in hand of 7s. 10d. This was adopted. The meeting then proceeded to the election of officers for the ensuing year as follows: Mr. S. W. Harrison, *President*; Mr. E. F. Strickland, *Vice-President*; Mr. H. Skinner, *Secretary and Treasurer*; Mr. Arnold Roberts, *Social Secretary*; Mr. T. Marns, *Auditor*; and *Committee*, Messrs. S. C. McKee, G. Norris, H. L. Ironmonger, W. A. Weston, E. Drayton, A. Armitage, W. Walsham, T. Armitage, A. A. Senior. The *Social Committee* consists of the executive officers and Messrs. Weston, Norris, and Wrench. The Secretary outlined a programme for a business-meeting monthly to April, and two whist-drives, one in November and the other in February. After the annual business-meeting was over, the Secretary gave an exposition of the Departmental Report on the Drug Tariff, and he was instructed by the meeting to endeavour to obtain better terms. The matter was deferred to the November meeting, when the report from the Associations Conference will be presented. There were nearly thirty members present.

Glasgow.—Tuesday evening, October 19, was a grand night for the Glasgow and West of Scotland Chemists' Association, as then the new rooms at 165 Hill Street, Charing Cross, were opened with an "At Home." "Fine rooms they are," said one who was there to us. There was a large assembly of ladies, and the guests included Mr. David Gilmour (Chairman N.B. Executive), Mr. Rutherford Hill, and Mr. L. Moreton Parry (Liverpool). Mr. McMillan was accompanied on the platform by Mr. J. P. Gilmour, Mr. W. L. Currie, Mr. John Foster, Mr. Baird, Mr. George Mackay, and Mr. G. Shiach Kitchin (Hon. Secretary). Mr. David Gilmour congratulated the Association on its enterprise and wished it continued prosperity. Mr. Hill explained the present critical position of Insurance in Scotland (see p. 52). This was Mr. Parry's first visit to Glasgow, and after touching on Insurance matters he expressed his pleasure at being present, and the delightful impression he derived from his first acquaintance with Glasgow pharmacists. Mr. Currie was reminiscent, but we can scarcely credit that his pharmaceutical memory goes back fifty years! A first-class musical programme was sustained by Miss Stapleton, Miss Allan, Miss Gilmour, Mrs. Lawson, and Messrs. McAdam, Gracie, Dickson, McKenzie, Howatt, Thomas, Orr, and Moffatt. Miss Duff was accompanist to the singers. After Mr. George Mackay had expressed the gratitude to all who had contributed to the success of the meeting "Auld Lang Syne" concluded the proceedings.

Grimsby.—The Grimsby and District Pharmacists' Association met at the Oberon Hotel on October 15, Mr. C. Dewing (President) in the chair. A deputation reported favourably on the Victoria Rooms, Silver Street, as a meeting-place for the Association, and it was resolved to meet there during the next year. The Secretary read a letter from the Glasgow and West of Scotland Chemists' Association, asking the Association to help in securing a better profit on certain proprietaries by urging the manufacturers to place their goods on the P.A.T.A. list. It was resolved to write to certain manufacturers as suggested. The meeting then discussed the L.A.C. agenda, and the Association's delegate (Mr. C. Dewing) was given a free hand in regard to voting for or against the various resolutions.

Institute of Ophthalmic Opticians.—At the meeting of the Council held on October 14 the principal business was the question as to what should be the attitude of the Institute towards the exhibition of a card in the windows of some of its members bearing the words "Sight-testing Free." Any such card was strongly objected to by Mr. Matthews, who moved a resolution condemning the practice and asking the Council to take action. He was supported in this attitude by Mr. Rawling and by several other members. The grounds of objection are chiefly that

an advertisement is generally in the nature of a misrepresentation, as the optician who professes to test sight for nothing really charges for his services in the price of his spectacles. The exhibition of the card is therefore unfair alike to the purchasing public and to rival opticians. Mr. Yeates said that when he began he had a booklet printed having upon it the words objected to, but had very soon abandoned the practice, for he thought it reasonable that an optician who had given time studying the subject of testing sight, and had spent a considerable amount of money going through the course in London or Glasgow, should give his time free. He now makes a charge for testing. Mr. Bennett said he made no charge for merely testing a person's eyes and saying whether spectacles were needed or not; but if they are necessary and are ordered he made an inclusive charge for testing sight and supplying glasses necessary to correct it. Mr. Spiegelhalter said the Institute had been striving for ten years to raise the status of the optician, and this could not be done by an advertisement offering to give services free. Mr. Roberts, however, contended that the business of opticians built on free sight-testing. Old-established firms might be able to make a charge, but younger members of the Institute have to build up their business. He knew of a medical man who had put up a card in his consulting-room, "Sight-testing Free on Wednesdays." The same man supplies glasses. If the members of the Institute are allowed to exhibit a card they would be at a disadvantage in meeting this kind of competition. A motion was eventually carried as follows:

That the use of the term "Sight-testing Free" is inadvisable in the true interest of qualified opticians, and this Council recommends that this form of advertisement be discontinued by members of the Institute.

Kent (W.).—A meeting of the West Kent Pharmacists' Association was held on October 13 at the Literary Institute, Bromley, Kent. Mr. G. Shillcock in the chair. The Treasurer (Mr. R. C. Davenport), Hon. Secretary (Mr. D. Kelf), Mr. J. Hooper (Bickley), Mr. R. Skinner (Bromley), Mr. Perkins (Beckenham), and Mr. J. E. French (Sittingbourne) were among those present. The Hon. Secretary gave a *résumé* of the work done by the Pharmaceutical Committee and the District Insurance Committee of which he is the Association's representative. Discussions took place on the increased medicine stamp-duties, and also on an earlier closing. A letter was read from the Mayor of Bromley suggesting the closing of all shops at 7 P.M. It was resolved that steps be taken to secure the closing of all chemists' establishments at 8 P.M. every day (except Saturday), and that a letter be sent to the medical men on the panel asking for their co-operation with regard to H.I. prescriptions. Mr. French, Secretary to the Kent Pharmaceutical Committee, explained the proposed new tariff, etc., suggested in the Report of the Departmental Committee on the Drug Tariff. The election of officers was postponed owing to the small number of members present. It is hoped to take advantage of a visit from a member of the Council of the Proprietary Articles Trade Association at some future date.

Liverpool.—A meeting of the Liverpool Chemists' Association was held at the Royal Institution, Colquitt Street, on October 13. Mr. H. Humphreys Jones, F.C.S., presiding over a good attendance. After formal business, the President called attention to the Liverpool Pharmacists' Training Corps, and congratulated those responsible on securing the service of Dr. Murray Cairns, M.D., as lecturer on "first aid." As an attendance of 80 per cent. must be obtained before a candidate can sit for the examination, it was essential for would-be students to join at once. Mr. Prosper H. Marsden called attention to Mr. Crossley Holland's "Handbook of Pharmacy." The President then called upon Mr. Stanley White (Parke, Davis & Co.) to deliver his lecture on "Bacteriology." Mr. White dealt with the matter very fully, and concluded with a detailed account of the manufacture of the various vaccines, sera, typhocogens, etc., in which pharmacists are interested. The lecture was illustrated by a series of lantern-slides, and was very highly appreciated. Mr. Prosper H. Marsden proposed a cordial vote of thanks to the lecturer. This was seconded by Mr. J. G. Wallbridge, supported by Mr. Moreton Parry and Mr. Harold Wyatt, and heartily accorded.

London (E.).—A meeting of the East London Pharmacists' Association was held at Limehouse on October 14. Mr. A. R. Keith (President) in the chair. An offer from the P.A.T.A. Council to send a representative to address the meeting was accepted. Messrs. Keith and Goode examined the recommendations embodied in the report made by the Departmental Committee on the Drug Tariff, and valuable assistance was rendered by Mr. G. A. Tocher

(Secretary of the London Pharmaceutical Committee), who gave the meeting the benefit of his knowledge of the subject. The proposals met with a mixed reception, and criticism was directed mainly against the provision for the supply of drugs and appliances at prime cost. It was pointed out, however, that prescriptions show a progressive tendency to diminish in value, and ultimately the profit as allowed under the present system might sink very nearly to the level of the establishment-fee as proposed under the new system. On the motion of Mr. Hatfield, it was decided to endorse the attitude of the London Pharmaceutical Committee towards the new Tariff proposals. Attention was next given to the proposal to adopt *earlier closing* in the district. A canvass of the doctors had shown that Poplar and Limehouse practitioners are ready to limit their hours of attendance to 8 P.M., but Stepney doctors are unwilling to do so. After considerable discussion it was decided that Poplar and Limehouse should close at 8.30 P.M. during the first four days of the week and Stepney at 9 P.M. The final arrangements were left in the hands of a special Committee. The Chairman appealed for more members for the Bowling Club. Several enjoyable games had been played during the past season, and novices had developed great enthusiasm and some symptoms of skill. Reverting to business, attention was given to the necessity for alterations in the East London price-list. It was decided to advance *prices of proprietaries* in general to the extent of the extra stamp-duty, and to increase the prices of several articles affected by the war.

Manchester.—The first meeting of the session of the Manchester Pharmaceutical Association was held at 65 Market Street, on October 13. About sixty members were present, in addition to a number of Salford and district pharmacists. The President (Mr. W. H. Delve), opening the proceedings, said he would call on Mr. A. Hersberg to speak on the questions of (1) the abolition of the practice of breaking bulk of proprietary articles, and (2) refusal to stock and sell certain proprietary goods; and he would ask Mr. G. A. Mallinson to speak on (1) the establishment of minimum profits on all proprietary articles, and (2) reduction in hours of business. Mr. A. Hersberg, in his address, deprecated the abolition of the practice of breaking bulk of proprietary articles, as the practice is now universal in working-class neighbourhoods. It would be a great loss to a number of chemists to abolish the practice, and would merely drive customers to small general shops which held patent-medicine licences. Mr. Kemp and Mr. Bates spoke in a similar strain, and Mr. Bell thought it would be advisable to leave the matter as it is at present. Mr. Stacey Hall said Beecham's pills paid very well if sold in pennyworths, and he did not agree with the idea of doing away with the present practice. He mentioned several very well-known proprietary articles which he has never stocked because they do not yield a profit. Mr. Nidd said conditions are so different in various districts that it would be unwise to adopt methods which would interfere with chemists' returns. After the discussion had lasted nearly an hour, Mr. Kemp proposed a resolution asking the Inland Revenue authorities to withdraw the concessions made allowing the breaking of bulk of stamped medicines. Mr. Griffiths seconded, and said that if the Inland Revenue authorities granted this request, the general shop would not be able to carry on that class of trade to the detriment of the chemist. The resolution was carried by a small majority. Mr. Mallinson then introduced the subject of minimum profits on proprietary articles. He said a reasonable profit might be considered to be 25 or 33½ per cent. Chemists should sell their own proprietaries and utilise every means in their power to boycott unprofitable proprietaries. Mr. Harry Kemp followed, and Mr. Bates said that a big American "business doctor" said that if a chemist wishes to increase his turnover and be a successful business-man he must stock and show in every possible way the things which the public are buying, and which by their advertising the proprietors are causing people to ask for. Advertising is the keynote to success. Mr. Griffiths recounted his experiences of selling Ucal preparations, instead of largely advertised proprietaries. On the suggestion of the President, the discussion was adjourned till after the Conference of Local Associations. The discussion on (1) the establishment of minimum profits on all proprietary goods and (2) reduction in hours of business was also postponed. The President then asked Mr. James Grier, M.Sc., as Chairman of the Worsley Hospital Dispensary Committee, to give a *résumé* of the work of the Committee on behalf of the pharmacists of Manchester and Salford. Mr. Grier paid a glowing tribute to the manner in which the pharmacists of Manchester, Salford, and district had contributed towards the maintenance and equipment of the dispensary at the Worsley Hall Red Cross Hospital. The wholesale firms of

Manchester have also contributed on a liberal scale, both in money and goods. Messrs. G. J. Blor, F. A. Storey, H. R. Watkinson, and J. W. Watkinson, who volunteered to undertake the work as dispensers, had carried out the work in a most efficient manner, and they had been thanked by the Committee on behalf of the pharmacists. He wished, however, on behalf of the Committee, to present to each of these gentlemen a token of their esteem. This took the form of gold tie-pins and an illuminated address. After Mr. Grier had made the presentation, the recipients replied. Mr. Grier also mentioned that he had received a letter of thanks from Colonel Coates, showing that the efforts made by the pharmacists had been appreciated. Mr. Flint proposed a vote of thanks to the Committee, which Mr. J. Cleworth seconded. The latter said that the work done was highly creditable, and the record would be handed down to posterity as a duty nobly done.

Merthyr Tydfil.—The Merthyr Tydfil Pharmacists' Association met on October 12, when the Local Associations Conference agenda was considered. Mr. V. A. Wills was appointed delegate to the Conference, and was authorised to support the proposals put forward, but to stand out for an increased establishment charge and larger dispensing-fees, the view of the members being that the lowest establishment charge acceptable to the area is 1.5d. Another meeting will be held as soon as practicable after the date of the Conference.

Middlesex.—The Middlesex County Association held a meeting at Westwood House, High Holborn, on October 13, the President (Mr. Herbert Skinner) in the chair. The new members elected were Messrs. Taggart, Brumwell, and Weston, it being understood that Thames Valley would proceed to the election of another at their next meeting. Mr. W. Duncan was elected as a delegate to the Local Associations Conference in the place of Mr. Wolff, who goes as a member of the Executive. A communication from the North London Association was read regarding the organisation of the County Association in London, and recommending the adoption of similar methods in Middlesex, and, if possible, joining up with Surrey and Kent in making a Home Counties Federation. After some discussion, the matter was remitted to the Harrow and Thames Valley Associations, Ealing having already acquiesced. The question of prices arose, and it was felt that a representative Association such as that outlined would be the best means of bringing the matter to a focus.

Newcastle.—The annual meeting of the Newcastle-upon-Tyne Pharmacists' Association was held on October 13. Mr. H. W. Noble (President) occupying the chair. The Hon. Junior Secretary and the Treasurer presented their reports for the past year, the latter showing a substantial balance in hand. The Hon. Senior Secretary, who is also Secretary of the Pharmaceutical Committee, in his report of the year's work of that Committee, referred to the amicable relations which exist between the Committee and the Medical Sub-Committee of the city. Various difficulties which had arisen during the past year have been settled to the advantage of pharmacists, but the question of "Rep. mist." still stands in an unsettled condition. At the suggestion of Mr. T. M. Clague, it was decided, in order to give country and city members an equal chance of attending the meetings of the Association, that these should in future be held alternately on Wednesday and Thursday evenings. The list of officials for the ensuing session remains practically the same as last year. Mr. H. W. Noble being re-elected *President*, Mr. Wm. Kersc *Treasurer*, and Mr. C. E. Layne *Hon. Solicitor*. A useful series of lectures has been arranged for the winter, and a special P.A.T.A. night is an item in the syllabus. There is an afternoon meeting again next month to meet Mr. Woolcock, Secretary of the Pharmaceutical Society. It is notified that in connection with the Ambulance Brigade affiliated to the Association there are still a few vacancies for pharmacists or their assistants. Those desirous of joining are invited to attend at Cambridge Hall, Northumberland Road, Newcastle-upon-Tyne, on any Tuesday night at 8.30. Mr. Noble, in his presidential address, spoke principally upon the matter of the new Tariff, and pointed out the loss pharmacists appeared to be about to sustain through the lowering of Tariff rates and the cutting-down of dispensing-fees. In the discussion which followed, many members considered that it could not be too much pressed upon the delegates to the October Conference that nothing whatever should be given up by pharmacists in exchange for the abolition of the discounting clause. The delegates (Mr. Clague and Mr. Flemming) thought, along with some of the members, that no action should be taken by the Association in the matter of acceptance of the Tariff until after the decision of the Conference of Local Associations.

Scarborough.—The annual meeting of the Scarborough and North Riding Association of Pharmacists was held at 147 Falsgrave Road, Scarborough, on October 15. Mr. W. H. Newton in the chair. There was a very good attendance. The financial statement for the year showed a satisfactory balance in hand. The officers were elected for the ensuing year as follows: *President*, Mr. H. E. Hunt; *Hon. Secretary*, Mr. W. A. Senior; *Treasurer*, Mr. W. H. Newton; *Committee*, Messrs. R. C. Brown, R. M. Hill, T. W. Longdin, and E. Parker. A vote of thanks was given to the retiring President, various adjustments were made in retail prices, and uniformity in the selling price of broken-bulk proprietary articles was arranged. A long discussion took place on the proposed Drug Tariff. Several members had worked out the cost and profit of a number of prescriptions under the present and the proposed Tariffs. Mr. Hird, of Northallerton, forwarded the result of an examination of 467 prescriptions. All the information laid before the meeting proved that chemists on the panel in N.R. Yorks area would be considerably out of pocket if the proposed Tariff were adopted. The Hon. Secretary was instructed to forward resolutions to the Council of the Pharmaceutical Society expressing (1) disapproval of the policy of suppressing criticism of the proposed Drug Tariff, and (2) disapproval of the proposed commercial Drug Tariff.

Sheffield.—The Sheffield Pharmaceutical and Chemical Society opened its winter session on October 13, when, at the invitation of the President (Mr. H. G. Williams), about fifty members, their wives, and friends met at the Victoria Café. Mr. and Mrs. Williams received the guests, and the subsequent proceedings were of an informal character. The chief items of the entertainment were pianoforte solos by Mr. Cecil Brookes, songs by Mrs. Harvey Williams and Mr. Percy Catchpool, recitations by Miss Dorothy Austen (daughter of Mr. John Austen), ventriloquist sketches by Miss Winifred De Lyle, and conjuring exhibitions by Professor De Lyle. The President is to be congratulated on the success of the evening, as this is the first time the session has been opened with a social evening.

Southport.—A meeting of the Southport Pharmacists' and Assistants' Association was held at the Y.M.C.A., East-bank Street, on October 19. Mr. Charles Hare (President) in the chair. Eight members and Mr. R. H. West (Hon. Secretary) were also present. A letter was read from Burroughs Wellcome & Co. regarding recent advances in the prices of their preparations. Mr. Chas. Hare, the delegate appointed to the Local Associations Conference, was asked to support certain resolutions on the agenda-paper regarding the discounting clause and breaking bulk.

West Bromwich.—A meeting of the West Bromwich Pharmaceutical Association was held in Mr. Rex Allen's pharmacy on October 19, the President (Mr. J. M. Withers) in the chair. Mr. Lock, Chairman of the Pharmaceutical Committee, addressed the meeting on the proposed new Drug Tariff. He agreed with the proposals in principle but not in detail. He considered the prices for dressings too low, and while the prices allowed for drugs seemed very fair, the proposed establishment charge is insufficient. He also disagreed with the minimum charge of 0.01d., and was of opinion that 0.1d. should be the minimum. Considerable discussion ensued, and the members generally endorsed Mr. Lock's views. A hearty vote of thanks to Mr. Lock for his address and a similar compliment to Mr. Allen for the use of his room concluded the meeting.

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Sunday, October 24.

Pharmacists' Voluntary Training Corps, Parade, 130 Horseferry Road, Westminster, at 10 a.m.

Wednesday, October 27.

Birmingham Pharmaceutical Association, The University, Edmund Street, at 3 p.m. Annual meeting.

Thursday, October 28.

London County Pharmaceutical Association, Examination Hall 17 Bloomsbury Square, W.C., at 3 p.m. Annual meeting.

Friday, October 29.

Cheltenham Spa Development Anniversary, Town Hall, Cheltenham. At 2.30 p.m. reception by the Mayor and Mayoress. A 5 p.m. public meeting.

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do. do.		1/-	1/-	7/6	..		
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do. (do. 18 do.)		1/3	1/2	11/-	.. 3d.		

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